

# Sequence List

<110> Rosen et al.

<120> 83 Human Secreted Proteins

<130> PS735

<150> PCT/US02/05064

<151> 2002-02-21

<150> US 60/270,658

<151> 2001-02-23

<150> US 60/304,444

<151> 2001-07-12

<160> 445

<170> PatentIn Ver. 2.0

<210> 1

<211> 733

<212> DNA

<213> Homo sapiens

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<211> 5

<212> PRT

<213> Homo sapiens

<220>

<221> Site

<222> (3)

<223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp Ser Xaa Trp Ser

1

5

<210> 3

<211> 86

<212> DNA

<213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic sequence with 4 tandem copies of the GAS binding site found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)), 18 nucleotides complementary to the SV40 early promoter, and a Xho I restriction site.

<400> 3  
 gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60  
 cccgaaatat ctgccatctc aattag 86

<210> 4  
 <211> 27  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic sequence complementary to the SV40 promoter; includes a Hind III restriction site.

<400> 4  
 gcggcaagct ttttgcaaag cctaggc 27

<210> 5  
 <211> 271  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes GAS binding sites found in the IRF1 promoter (Rothman et al., Immunity 1:457-468 (1994)).

<400> 5  
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 gccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180  
 ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240  
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<210> 6  
 <211> 32  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Xho I restriction site.

<400> 6  
 gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 7  
 <211> 31  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer complementary to human genomic EGR-1 promoter sequence (Sakamoto et al., Oncogene 6:867-871 (1991)); includes a Hind III restriction site.

<400> 7  
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<210> 8  
 <211> 12  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
 ggggactttc cc 12

<210> 9  
 <211> 73  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Primer\_Bind  
 <223> Synthetic primer with 4 tandem copies of the NF-KB binding site (GGGGACTTTCCC), 18 nucleotides complementary to the 5' end of the SV40 early promoter sequence, and a XhoI restriction site.

<400> 9  
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 ccatctcaat tag 73

<210> 10  
 <211> 256  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <221> Protein\_Bind  
 <223> Synthetic promoter for use in biological assays; includes NF-KB binding sites.

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 cagttccgcc cattctccgc cccatggctg actaattttt tttatttatg cagaggccga 180  
 ggccgcctcg gcctctgagc tattccagaa gtagtgagga ggcttttttg gaggcctagg 240  
 cttttgcaaa aagctt 256

<210> 11  
 <211> 1172  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (74)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (76)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (861)  
 <223> n equals a,t,g, or c

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 <221> SITE  
 <222> (1069)  
 <223> n equals a,t,g, or c

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<210> 12  
 <211> 1649  
 <212> DNA  
 <213> Homo sapiens

<400> 12

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<210> 13

<211> 1965

<212> DNA

<213> Homo sapiens

<400> 13

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<210> 14

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<212> DNA

<213> Homo sapiens

<400> 14

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 <212> DNA  
 <213> Homo sapiens

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<211> 1796

<212> DNA

<213> Homo sapiens

<400> 18

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<210> 19

<211> 1881

<212> DNA

<213> Homo sapiens

<220>

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<222> (1865)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1873)

<223> n equals a,t,g, or c

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<210> 20

<211> 2618

<212> DNA

<213> Homo sapiens

<220>

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<222> (2597)

<223> n equals a,t,g, or c

<220>

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<222> (2599)

<223> n equals a,t,g, or c

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<211> 1549

<212> DNA

<213> Homo sapiens

<400> 21

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<210> 22

<211> 3239

<212> DNA

<213> Homo sapiens

<400> 22

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<211> 1433

<212> DNA

<213> Homo sapiens

<400> 23

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<211> 2517

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (950)



<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1247)

<223> n equals a,t,g, or c

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<211> 807

<212> DNA

<213> Homo sapiens

<400> 25

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 <212> DNA  
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 <213> Homo sapiens

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<210> 28  
 <211> 1487

<212> DNA  
 <213> Homo sapiens

<400> 28

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 <211> 1889  
 <212> DNA  
 <213> Homo sapiens

<400> 29

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<210> 30

<211> 1192

<212> DNA

<213> Homo sapiens

<400> 30

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<210> 31

<211> 1162

<212> DNA

<213> Homo sapiens

<400> 31

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<210> 32

<211> 2799

<212> DNA

<213> Homo sapiens

<400> 32

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<210> 33

<211> 1656

<212> DNA

<213> Homo sapiens

<400> 33

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<210> 34

<211> 2051

<212> DNA

<213> Homo sapiens

<400> 34

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<210> 35

<211> 2053

<212> DNA

<213> Homo sapiens

<400> 35

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<210> 36

<211> 576

<212> DNA

<213> Homo sapiens

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 <222> (538)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (565)  
 <223> n equals a,t,g, or c

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<210> 39

<211> 1877

<212> DNA

<213> Homo sapiens

<400> 39

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<211> 1352

<212> DNA

<213> Homo sapiens

<400> 42

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 <212> DNA  
 <213> Homo sapiens

<400> 44

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 <212> DNA  
 <213> Homo sapiens

<400> 46

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<210> 47

<211> 2030

<212> DNA

<213> Homo sapiens

<400> 47

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<211> 1602

<212> DNA

<213> Homo sapiens

<400> 48

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<210> 49

<211> 508

<212> DNA

<213> Homo sapiens

<400> 49

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<210> 50

<211> 612

<212> DNA

<213> Homo sapiens

<400> 50

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<210> 51

<211> 2291

<212> DNA

<213> Homo sapiens

<400> 51

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<212> DNA

<213> Homo sapiens

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<211> 765

<212> DNA

<213> Homo sapiens

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<211> 1896

<212> DNA

<213> Homo sapiens

<400> 54

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<210> 55

<211> 1876

<212> DNA

<213> Homo sapiens

<400> 55

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<210> 56

<211> 1072

<212> DNA

<213> Homo sapiens

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<210> 57

<211> 652

<212> DNA

<213> Homo sapiens

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<211> 1352

<212> DNA

<213> Homo sapiens

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<211> 1335

<212> DNA

<213> Homo sapiens

<400> 59

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<210> 60

<211> 2140

<212> DNA

<213> Homo sapiens

<400> 60

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 <211> 257  
 <212> DNA  
 <213> Homo sapiens

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<210> 62  
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 <212> DNA  
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<400> 62						
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<210> 63  
 <211> 1977  
 <212> DNA  
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<400> 63						
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<210> 64

<211> 2632

<212> DNA

<213> Homo sapiens

<400> 64

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<210> 65

<211> 1241

<212> DNA

<213> Homo sapiens

<400> 65

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<211> 1154

<212> DNA

<213> Homo sapiens

<400> 66

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<210> 67

<211> 1077

<212> DNA

<213> Homo sapiens

<400> 67

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<210> 68

<211> 3067

<212> DNA

<213> Homo sapiens

<400> 68

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<210> 69

<211> 3453

<212> DNA

<213> Homo sapiens

<400> 69

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<210> 70

<211> 1109

<212> DNA

<213> Homo sapiens

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<210> 71

<211> 1158

<212> DNA

<213> Homo sapiens

<400> 71

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<211> 1269

<212> DNA

<213> Homo sapiens

<400> 72

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<210> 73

<211> 2911

<212> DNA

<213> Homo sapiens

<400> 73

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<211> 5023

<212> DNA

<213> Homo sapiens

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<211> 1129

<212> DNA

<213> Homo sapiens

<400> 75

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<211> 1799

<212> DNA

<213> Homo sapiens

<400> 78

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<211> 2463

<212> DNA

<213> Homo sapiens

<400> 79

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<211> 1168

<212> DNA

<213> Homo sapiens

<400> 80

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1168

<210> 81

<211> 1707

<212> DNA

<213> Homo sapiens

<400> 81

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<211> 1480

<212> DNA

<213> Homo sapiens

<400> 82

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<210> 83

<211> 425

<212> DNA

<213> Homo sapiens

<400> 83

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<212> DNA

<213> Homo sapiens

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 <211> 2131  
 <212> DNA  
 <213> Homo sapiens

<400> 85

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 <212> DNA  
 <213> Homo sapiens

<400> 86

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<210> 87

<211> 641

<212> DNA

<213> Homo sapiens

<400> 87

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<210> 88

<211> 1524

<212> DNA

<213> Homo sapiens

<400> 88

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1524

<210> 89

<211> 1810

<212> DNA

<213> Homo sapiens

<400> 89

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<210> 90

<211> 1617

<212> DNA

<213> Homo sapiens

<400> 90

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<210> 91

<211> 758

<212> DNA

<213> Homo sapiens

<400> 91

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<210> 92

<211> 2152

<212> DNA

<213> Homo sapiens

<400> 92

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<210> 93

<211> 758

<212> DNA

<213> Homo sapiens

<400> 93

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<210> 94

<211> 1116

<212> DNA

<213> Homo sapiens

<400> 94

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aagggtacct	tacaaagtgc	agaaaaattt	acagcagctc	cttccctaag	gaatttcagg	780
gctgcatctc	tgacttctgt	gttagaggag	gaaaagcgga	gatgacatgg	aagtctccaa	840
gcctgtgcca	tccacctgcc	aaggaaaagc	acaagggtgct	atctactttt	ctctctagga	900
tttagattat	catttatgtg	ctgttgacac	gtgaaacctc	acctgtgtgg	gcgtgaaagc	960
tgattggcat	tgtttttgat	tcagcttttt	ggatggctaa	ttgttttcac	tgtgctgtgg	1020

gaatgcctct gtatttttttc ccctcttttgg ccctctttttt ctgaaaataa agtgatggat	1080
cctctagcca aaaaaaaaaa aaaaaaaaaa aaaagg	1116

<210> 95  
 <211> 724  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<400> 95	
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gggcttggat tactcttaca agtgcaccac gcctgtccca gaacagcaca aggtatttga	120
gagacagctg cagctggctg tgtctctaaa gaagcccttg gtgatccact gccgagaagc	180
tgatgaagat ctgctagaaa tcatgaaaaa gtttgtgccc cctgactaca agatccatag	240
gcattgcttc accggcagct acccggtcac tgagcccctg ctgaagtact ttcccaacat	300
gtctgtgggc ttcacggcag tgctgacata ctctctgcc tgggaggccc gggaagcctt	360
gaggcagatc ccactggaga gaatcatcgt ggaaacggat gctccctatt tcctccctcg	420
ccaggttccc aaaagccttt gccagtatgc ccaccgggc ctggccttgc atacggtccg	480
agagattgcc agagtcaaag atcagccact ctccctcacc ttggctgcct tgcgtgagaa	540
caccagtcgc ctctacagtc tttaagcaga gaaggtacag tcctcgggag tctcctagaa	600
aaggtcgtaa aactcacatt ctgtattttt taaaaaccag gacaagtctt ttgttgcatt	660
ttgttaatgt aaagaatata aacatagtat gagcattaaa aaaaaaaaaa aaaaaaaaaa	720
aaaa	724

<210> 96  
 <211> 636  
 <212> DNA  
 <213> Homo sapiens

<400> 96	
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tggccattcg ggctcagcac agcaacgcag ccagactca gactggggaa gcaaacaggg	180
gctggacagg ccaggagagc ctgtcggaca gtgatcctga gatgtgggag ttgctgcaga	240
gggagaagga caggcagtg cgtggcctgg agctcattgc ctyagagAAC ttctgcagcc	300
gagctgcgct ggaggccctg gggtcctgtc tgaacaacaa gtactcggag gggttatectg	360
gcaagagata ctatggggga gcagaggtgg tggatgaaat tgagctgctg tgccagcgcc	420
gggccttgga agcctttgac ctggatcctg cacagtgggg agtcaatgtc cagccctact	480
ccgggtcccc agccaacctg gccgtttaca cagcccttct gcaacctcac gaccggatca	540
tggggctgga cctgcccgat gggggccatc tcaccacgg ctacatgtct gacgtcaagc	600
ggatatcagc cacgtccatc ttcttcgagt ctatgc	636

<210> 97  
 <211> 1204  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1187)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1196)  
 <223> n equals a,t,g, or c

<400> 97  
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 cgacctcagg tcaggaaaag cccaccgaag ggccaagaaa cacctgcctg gggagcaaca 180  
 acatgtacga catcttcaac ttgaatgaca aggctttgtg cttcaccaag tgcaggcagt 240  
 cgggcagcga ctcttgcaat gtggaaaact tgcagagata ctggctaaac tacgaggccc 300  
 atctgatgaa ggaagggtttg acgcagaagg tgaacacgcc tttcctgaag gctttggtcc 360  
 agaacctcag caccaacact gcagaagact tctattttctc tctggagccc tctcaggttc 420  
 cgaggcaggt gatgaaggac gaggacaagc cccctgacag agtgcgactt cccaagagcc 480  
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 ttggtccagg gactctcttc aagggtagga ctcagggaag ctccaagggt aagtgtctagg 600  
 tcctctgggg gctccatgcc acagtttgct gtcactggag cctgccgagg gatccaatgg 660  
 ggacagagca ggcagtgagc ctcttagtgt ttctaatagca gcccgtggcc atctcagaca 720  
 cctgtcacta gagtctatgg tcttcagact cactactggc acacgctctc agatgtttga 780  
 cccccacaca tgagtgcctt ttggcttgct tatgtgtcct gtgggtgctc gtgtgctctg 840  
 tgtgtcctcg tgcatgcaca aacatgcaca tccttttcta ttcttggtgca cgcacaagcc 900  
 catgtactca gctgtgatca tatccacacg agcaagtgtg cccatgccct tgcacatgtg 960  
 tataccagggt atgtgcaccc agagggtgtg atccactcct gtgcagacgt gtgtaccctt 1020  
 gagggctagt gtgtccccc caccagcctc ctttctaccg aatgcacact cagctaaga 1080  
 ccctcagggg cagcctatcc tccccgctga cttccatttc ttggtgatc ttggcccat 1140  
 gccccctttt msctttttaa gggtttttaa aaagggaagg ggggggnccc aaagnnaag 1200  
 gggg 1204

<210> 98  
 <211> 1117  
 <212> DNA  
 <213> Homo sapiens

<400> 98  
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 ttgtgtgctc ggctgtgggg gacgcttgcc tcacttgccc ggcagccttc gtccctggca 180  
 tggccgcctt tgcaccgccc cactcctctc acgtctgggc ctteggtctc tctccctgc 240  
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 agcacctcga gccggatatg gtccctgccc tggcagccta tgggctgatc ctgatggcca 360  
 tgctgtggcg cggcctggcc cagggcgagg gtgcccgtct gggcgcgctg ctcttcacgc 420  
 tctctgatgg cgtgctggcc tgggacacct tcgcccagcc cctgccccat gccrcctgg 480  
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 cggtgcccaa gactgactga ctaggagact tgaagggccg gtgttcaggc cctctcctcc 600  
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 tcctgacgac tgtctgcagg cgcygtgccc gccgtcgctt ctggctgaag acgtttgagg 720  
 acgatttgcg gaattccaag tccactactg ggttcagct gccttcccc ggttctgact 780  
 ccagatccct ggctcctcag ccaggcccac cccagccacc agcctgcctc 840  
 catgttcaact gtcggcccca cagcctgccc gccccctgct gctgctctga atccgttttc 900  
 cctgtgggtg tggaaaccgta gatgttgctg ttaccgtagg agaggcctcg gggagggtca 960  
 tcattgtgat aaaccatcgc ggttaatgac agcagaaggt tctttgtcgc tccccatgga 1020  
 ccaggcctgg tgcacagtgg gaccctccat ggccctctgg tggggggatt cggggggata 1080  
 aagtgaggat tgtgcagaac tgaaaaaaaa aaaaaaa 1117

<210> 99  
 <211> 1092  
 <212> DNA  
 <213> Homo sapiens

<400> 99  
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 attgaagctg ctggcccagc atgtggtgcg cgagcccagt tgctgtggtg gccttttgcg 120  
 ccgggctttt ggtctctcac ccggtgctga cgcagggcca ggaggccggg gggcggccag 180  
 gggccgactg tgaagtatgt aaagaattct tgaaccgatt ctacaagtca ctgatagaca 240  
 gaggaggttaa cttttcgctg gacactatag agaaagaatt gatcagtttt tgcttggaaca 300  
 ccaaaggaaa agaaaaccgc ctgtgctatt atctaggagc cacaaaagac gcagccacaa 360  
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 agaagctgaa gaagttggat agccagatct gtgagctgaa atatgaaaaa aactgggact 480  
 tggcatcagt tgacctgcgg aagatgagag tggcagagct gaagcagatc ctgcatagct 540  
 ggggggagga gtgcagggcc tgtgcagaaa aaactgacta tgtgaatctc attcaagagc 600  
 tggcccccaa gtatgcagcg acacacccca aaacagagct ctgatctcca atgccagcac 660  
 atttgtgact tgtaattaga gagaaaagtg actctctagg atatggacat gttgattaag 720  
 gataactggg aatgcatcat atttggtctc atgctttttg tgttggattt attcctcaga 780  
 attttgttac gtgggtttat gagtgaact aatactactg ataacttaca tttgcagtgt 840  
 accaaaagct aaaagttcct ttctcataag tttcttggaa tgactatgcc agttttcatt 900  
 gcctgtctcc taaaagtgcac ctactgacaa attgatggag taaattgatt ccaagaaaga 960  
 agaaggcatt cagagactcc tctctggatg caattttaaa atatattgga ctaaaacaaa 1020  
 agacacaaca gtcagcttat ctaatgcaca acttcaatcc caaatacaga atcaaaagtt 1080  
 tttttcaagt ga 1092

<210> 100  
 <211> 1450  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1374)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1415)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1418)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1426)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1439)  
 <223> n equals a,t,g, or c

<400> 100  
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 atgaacgacc gaggccaggg agtctctcc ttgggcctct gcatccccc atccttggct 120  
 ctggggtagg ccagggagg agacaccccc aaccctatc cggctctgtcc tggagaaaag 180

agactgccct	tccatgcccc	tgagtgaggg	gcctggggcc	caggctgcct	gtgttcccca	240
agggcaaggg	tctctctgtt	gaggaggagg	ggcctgtcag	ccacaacttc	tttcctcctg	300
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ccccgccgac	agtccctcct	tgtctgtctc	cgggattcag	gcctccctcc	ctgacatgga	420
gagtaacctg	tctggcctgg	tgctgtctgc	cgggctgggtg	cctgcgctgc	cacctgctgt	480
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cgtctgcctg	cagttcttca	ccttgacgct	tatgaacctc	tactttgccc	aggtggtggt	780
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aaccgggtg						1450

<210> 101

<211> 764

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (636)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (641)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (733)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (743)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (764)

<223> n equals a,t,g, or c

<400> 101

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cttgctgcct	gcctctgcct	cgtcgccagg	cgggcgccct	ccactagcat	ctacctggag	180
gccaaagggga	ccagtgtgtg	ccaggcggcc	gcgatgggtg	gcgccatggt	cctgctctat	240
gccagccggg	cctgctacaa	cctgacagca	ctggccttgg	ccccccagag	ccggctggac	300
accttcgatt	acgactggta	caatgtgtct	gaccaggcgg	acctggtgaa	tgacctgggg	360

aacaaaggct	acctgggtatt	tggcctcatc	ctcttcgtgt	gggagctact	gcccaccacc	420
ctgctgggk	gcttcttccg	gggtgcaccg	ccccacagg	acctgagcac	cagccacatc	480
ctcaatgggc	aggtctttgc	ctctcggtcc	tacttctttg	accgggctgg	gcactgtgaa	540
gatgagggct	gctcctggga	gcacagccgg	ggtagagca	ccagtatgtc	gggcagtcta	600
ggctctggga	gctggtatgg	tgccatcggg	cgtganccgg	nctggtatgg	gggcagccag	660
acgaagacca	ctcctctgtc	tctccagtgc	agacagcgca	cacacagctt	atcaccaaac	720
ggcctctcc	aanaaccagc	cancctacta	gctggcagtg	tgcn		764

<210> 102  
 <211> 880  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (737)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (805)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (877)  
 <223> n equals a,t,g, or c

<400> 102						
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atgggaggaa	tgatcatcgt	cctgctcatc	tgcattgtct	ggtttcctct	tctcttcatg	120
tctttgatca	aatctgtggc	tggggtcac	aaccagcccc	tggacgtctc	cgtcacaatt	180
accctgggag	ggtatcagcc	tattttcaca	atgagtgtcc	aacaaagcca	gttgaaaatt	240
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caatttctgg	aaaattatga	aaaagaagac	ataacagtag	cagaactgga	aggaaactca	360
aattctttgt	ggaccatcag	cccacccagt	aagcagaaaa	tgatacacga	actcctggac	420
cccaatagta	gcttctctgt	tgttttttca	tggagtattc	agagaaaact	aagtctgggt	480
gcaaaatcgg	aatagcaac	agataagctt	tcttttcctc	ttaaaaatat	tactcgaaag	540
aatatcgcta	aatgatagc	aggcaacagc	acagaaagtt	caaaaacacc	agtgaccata	600
gaaaagattt	atccatatta	tgtgaaagca	cctagtgatt	ctaactcaaa	acctataaag	660
caacttttat	ctgaaaataa	ttcatggrra	ttaccatcat	ttgkccarag	mcatacacta	720
aaattaacagt	gagtggnggg	ttttaactga	tggaaaccgat	tccatcgact	ttagcctgga	780
cggggccttat	gcaagcagcc	ccagntgggtc	tgtgcatgat	aggatattct	atgctggatg	840
gaatgccgat	ttagggatta	tctagtgaag	tcagggnatt			880

<210> 103  
 <211> 1321  
 <212> DNA  
 <213> Homo sapiens

<400> 103						
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gatgagctgg	agccttgtgg	cacaatttgt	gaggggctct	ttatctccat	ggcattcaaa	180
ctcctcatte	tgctcatagg	gacctgggca	ctttttttcc	gcaagcggag	agctgacatg	240
ccacgggtgt	ttgtgtttcg	tgcccttttg	ttggctcctca	tcttttctct	tgtggtttcc	300
tattggcttt	tttacggggg	ccgcattttg	gactctcggg	accggaatta	ccaagggatt	360
gtgcaatatg	cagtctccct	tgtggatgcc	ctcctcttca	tccattacct	ggccatcgctc	420
ctgctggagc	tcaggcagct	gcagcccatg	ttcacgctgc	aggtgggtccc	gctccaccga	480
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cctagaaaat	tactacaaag	atttcaccat	ctataaccca	aacctcctaa	cagcctccaa	600
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caatgccact	ggccagtecc	gggccatgat	tgctgcagct	gctcggcgca	gggactcaag	720
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a						1321

<210> 104  
 <211> 1558  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1542)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1550)  
 <223> n equals a,t,g, or c

<400> 104						
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cgtattctcc	acactcacca	caagtggctg	ggtgtgactt	gacacggtgt	gaaagtggag	180
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acctggcctt	ctgcatacc	aacggcatga	cccccaaggc	cttcctagaa	cggtacctca	720
gtgcggggcc	caccctgcaa	tatgacaagg	accgctggct	ctctacacag	tggaggcttg	780
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atgccagagg	ggtgtctttt	ttaaaaattc	ttcttcattg	ctgactgaaa	ctggcagatg	1080
attgaccagt	atcctttgac	catctgcact	ttatttggaa	ggaagcaggg	gctgtccacc	1140
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<210> 106

<211> 3144

<212> DNA

<213> Homo sapiens

<220>

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<223> n equals a,t,g, or c

<220>

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<222> (3138)

<223> n equals a,t,g, or c

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<211> 843

<212> DNA

<213> Homo sapiens

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<220>  
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 ngg 843

<210> 108  
 <211> 613  
 <212> DNA  
 <213> Homo sapiens

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<210> 109  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

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<223> n equals a,t,g, or c
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<222> (15)
<223> n equals a,t,g, or c
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<220>  
<221> SITE

<222> (51)  
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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 tgtaatccca gcacttttgg agcacaagat gggaggatca cttcagcca agaatttaatt 360  
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 aaccagtcac ggtggttgtt gcctgtgggt caaactacat gggagactga ggtgggagga 480  
 ttgcttgagc ccaggagggt aagactgcag tgagttatgc tcatgccact gcactccagc 540  
 ctgggcaaca gaatgagaca ctgtcttaaa aaaaagamaa gtgaatttat aaacaaaatt 600  
 ttaaaaaatc agctcttgta aaaactaaga gtgagaactg actcattatt gcaaagataa 660  
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tttaacaatg ggaatcaaa

739

<210> 115

<211> 529

<212> DNA

<213> Homo sapiens

<400> 115

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accactaatt	attatggcga	ggaagataaa	gaagacatgg	acagaaggcg	gatggctctg	180
cggcctggct	cccgcagacc	gaccgccttc	ttcttccatt	cgagatggct	cgtaccgaac	240
ctccttgcc	tcttctggg	tctctcgggg	gctggaccaa	tacatctgcc	gatgccctgg	300
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ccaggccgct	ggaagcctgt	agctccgcgg	aggatgaaag	cctgcccgcga	ggttctcctg	420
gagtggtag	cctctgtcgg	aagggggcgc	ccacgtcttt	ttaatggtcc	taacacacca	480
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<210> 116

<211> 751

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (657)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (658)

<223> n equals a,t,g, or c

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<223> n equals a,t,g, or c

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<221> SITE

<222> (717)

<223> n equals a,t,g, or c

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<221> SITE

<222> (726)

<223> n equals a,t,g, or c

<400> 116

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tctcagtgtc	tgctgttggt	gccactat	tctcagagat	aaactttgga	gttctactag	300
gtgcctcatt	tctctcacct	gtcacatcct	gtcagtggcc	aatgatgtcc	attcactgtg	360
tacagcctct	cctcccatta	tttttgccat	cgtcttattt	caagcaattc	ttattacttc	420
cctggacttt	tggagtagcc	ctctaattgg	tttacagtct	ccaattgttt	ttcctaatac	480
atcttataaa	atactgatga	cttttcctaa	aaccaatcat	gcgaaacctc	agcctaaaat	540
tcttcatgga	gtttgattat	ctactgaaga	aaatgcaaac	ttagcgtgac	attccagatt	600
ttcctggtcc	ccgcctacct	ttctaatttt	atctaattctc	tacctttaat	tcttggnnta	660

tacctttctg ataacagtca ctggtttcag ntagaaagct gaaaaggaca ctaacanttt	720
ggtagnaaat gctaaatgcc ttatatatgg c	751

<210> 117  
 <211> 660  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (17)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (67)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (71)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (159)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (209)  
 <223> n equals a,t,g, or c

<400> 117	
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gtttcagaga gttcagggtta atttgtccaa gatcatacna cttgcaagta gagcaatcaa	180
ggttgggtga ttataatata cacatgctnt ctgtcacgtt gtgttaattc tttgtgtaca	240
tgatcatttt ccattgctta actttgggtta atcttaaaag aaggattgct gaatcaaagt	300
atatatccat ttaaaatgtg acacacattt tcaaactgcc ttctagaaag gttataccag	360
gctagggtga gttgtctcat gcctgtaatc ctagcacttt gggaggctga ggwrrrcgga	420
cagcttgagc tcaggagttc aagaccagcc tgggcaacat ggtgaaacc tgtctctgta	480
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gaggatcgct tgagcctggg agatgaaggt tgcagtgaag ctgagattgc accactgcac	600
cacagcctgg tgacagagtg aggccctgtc tcaaaaaaaaa aaaaaaaa aaaaactcga	660

<210> 118  
 <211> 1488  
 <212> DNA  
 <213> Homo sapiens

<400> 118	
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ggctcacaga tgtcccagct gccatggaat tcattgctgc cactgaggtg gctgtcatag	180
gcttcttcca ggatttagaa ataccagcag tgccatact ccatagcatg gtgcaaaaat	240
tcccaggcgt gtcatttggg atcagcactg attctgaggt tctgacacac tacaacatca	300
ctgggaacac catctgcctc tttcgccctg tagacaatga acaactgaat ttagaggacg	360
aagacattga aagcattgat gccaccaa atgagccgtt cattgagatc aacagcctcc	420
acatggtgac agagtacaac cctgtggcct ccccagagta tgaagagaac atgcacagat	480

accagaaggc	agccaagctc	ttccagggga	agattctctt	tattctggtg	gacagtggta	540
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tggcaattta	ccagactcta	gatgacgagt	gggatacact	gccacagca	gaagtttccg	660
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tgcacacaca	cacgcgcaca	cacacacaca	cacacacaga	gcttcatttc	ctgtcttaaa	960
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gactcaggat	caaaaaccaa	aggatggttt	taaacacctt	tgtgaaattg	tctttttgcc	1320
agaagttaaa	ggctgtctcc	aagtccctga	actcagcaga	aatagaccat	gtgaaaactc	1380
catgcttggt	tagcatctcc	aactccctat	gtaaatcaac	aacctgcata	ataaataaaa	1440
ggcaatcatg	ttaggaaaaa	aaaaaaaaaa	agggggggccg	ttttaag		1488

<210> 119

<211> 656

<212> DNA

<213> Homo sapiens

<400> 119

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gccgacaaa	ttgggaacac	gccactgcat	gtggctgctc	gatatggaca	cgagctgctc	180
atcagcaccc	tcatgaccaa	tggcgcagat	accgcccggc	gtggcatcca	tgacatgttc	240
cccctgcact	tagctgttct	ctttggattc	tctgactgtt	gtcgtaaagct	tctttcctca	300
ggtcagttgt	acagcattgt	gtcttcactc	agcaatgagc	atgtgctttc	agctgggttt	360
gacatcaata	cacctgacaa	ccttggccgt	acctgtcttc	atgctgctgc	ttccggaggg	420
aatgttgaat	gtcttaattt	gctgttgagc	agtggagctg	acttgaggag	gagggacaaa	480
tttggcagga	ccccactgca	ctatgcagct	gctaaccggt	gctaccagtg	tgcagtaaca	540
ttggtgactg	ctggggcgag	tgtcaacgag	gccgactgta	aaggctgctc	tccccctcac	600
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<210> 120

<211> 1394

<212> DNA

<213> Homo sapiens

<400> 120

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gcaccttcta	tcctgaataa	ctagcatgga	aaagtgaata	tatgtgtgag	cagatatggc	180
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aattgacccc	atccacaggc	tgattcatct	ttgtgttaag	gggcaaatga	aacggtatat	300
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tcagtcacag	gatgttctga	cacaccattg	taactttttg	ttagagatga	tcccatttag	480
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ttttcagctt	tacagacaag	aacaatttaa	atctaaagaa	tttagtagat	tccttcagtg	600
tcacaaagct	gtttctatgaa	agaatcaaga	ttataacctg	gatattctga	ctcctggccc	660
agtgcctttt	cttactttgt	agctacactt	tgaagtaaga	ttcaaactgt	tatccactca	720
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agtttgtcct	gcttgtgaaa	cattaaaaaa	aggctgtcag	gtttaataar	ctttttaatg	1380
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<210> 121

<211> 1164

<212> DNA

<213> Homo sapiens

<400> 121

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actccacagg	tttgaacctg	gcattctgga	caccagctat	gcctcctcca	tttctcagaa	120
aacctttgat	cttgtgtgtc	tttcttctta	ctgaaggga	ttgtgggggc	agttcttttg	180
ccttcttgct	gaactttgct	ggaaatagcc	cacaattttt	atcagagggt	agaactgtac	240
attatcagag	agactggaca	ctttatcccc	tagcaaagtg	ggagaagatt	ttaccagctc	300
attccactcc	accctggcct	tccccacccc	cccatcccca	gcagcatttc	catggaaatc	360
cagatggtcg	tgtagtgtta	tggctctctt	gtgatagact	ggccttcata	ttggagagct	420
agggagagcc	cctgggaggg	agagagataa	ggcgctatct	gccttcaatc	agaaccttcg	480
gtttaaaatc	atctaagagt	ctatacttgt	gtgtacatac	gtattttatt	ttattttatt	540
ttatacaatt	ccattggcat	ggtccttcac	cgaccctatg	atttgcactt	tttattttcta	600
tgtgtgccac	acacaatgca	gtattaatgg	caaccaggta	aataattgatt	tattttttta	660
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aagaatttgg	aaaatctgat	ggtgtgagca	gcagccgtta	gtatcagggt	ttcccattct	900
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ttgttttttg	aatttatgag	aaaaaccaaa	acactaagtt	aagtttgaac	ttgtaaagta	1020
ttgaaatttg	ttgagtgtcc	tataaattgt	cactactttt	cctgatctgt	ataactgact	1080
gcaaagtgtt	tgtttttaca	aaagagaaaa	gaaaagattt	ttaataaaga	gaatttgaaa	1140
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<210> 122

<211> 2793

<212> DNA

<213> Homo sapiens

<400> 122

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cgcgcacctg	ctcaagacca	gggtcctgcc	aagcgctagg	agggcgctg	ccaggggcgc	180
tagggaactg	cggagcgcgc	gcgccatggg	gccgcgcct	ggggccgggg	tctcctgccg	240
cgggtggctgc	ggcttttcca	gattgctggc	atgggtgctt	ctgctggccc	tgagtccgca	300
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ccatctggct	tatgagagag	gggcgtctgg	agccgtcatc	tttaacttcc	ccgggacctg	660
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<210> 123

<211> 511

<212> DNA

<213> Homo sapiens

<400> 123

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ccttttattt	ctccagaaca	ttctgcaggt	gagctgggga	agccactgg	ccctggcctc	180
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caagaagcgc	tccctgyggc	ctaatttgag	aaaacaatgg	gcctcaatcc	atattaatga	360
ccctagaggg	accctttgtc	ctcgggtcac	aggctgtaat	cagcggkrct	ccgggrgctc	420
tggcctaatt	tggagggaca	ggttttatca	tcacccttga	ttcgggtgac	ccaatctgac	480
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<210> 124

<211> 581

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (496)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (580)

<223> n equals a,t,g, or c

<400> 124

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tcaaaaaata	aaaataaaaa	aagcaggtga	tgggatgaca	tggagttttt	gttttgcttt	240
gttttgcttt	gttttgcttt	ttgctgcttc	cctgataggc	tatatactgc	tcccttcagc	300
ctctccccga	aaccacaggc	gcccacaa	tgaggccagg	ggtggaacc	ctggccagct	360
agatgatgag	ctgaagggga	ggcaaccttt	agccagcaga	cttgagacat	ctcagtgtac	420
tcaggggtctg	ctggctagca	ggcccagtg	ggtctccaaa	gcccttctgt	atccttaatg	480
gtccttaaac	cctggntgaa	gatcccccca	gttggtgttta	cttaagccag	aaggctgggc	540
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<210> 125

<211> 1166

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1163)

<223> n equals a,t,g, or c

<400> 125

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tgccatcaca	gctcagactg	gtgttgggg	agcgtctacc	gtccaccta	accccatgca	120
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<210> 126

<211> 692

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (8)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (12)  
 <223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<400> 126  
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 cagatattat aggttcttac catgttgatt atgaagaagt acaaagtatt cagaataaaa 180  
 acactaagca cagtaataaaa ccaaggggtgt gccagtaaat ttaccagta aattataact 240  
 ttcaaaaact gacggttctt aaataaactt taatctctgc actatttccg ggaatwtcac 300  
 acatggttat tacagttgat tatttcaggg aggcagttcc tctgctaata atagttgtga 360  
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 ttttggtgtt gctcttgccc tgaccrawrt tactctmta gcctagagta gtggttctca 480  
 gctctgactg agcatccaaa tcccccatgg agatttttca aggcataatt atctaaatcc 540  
 cactgcccag attatgattc tgtcggctga gtagggtct atgtgctcac atgttctaaa 600  
 aactctagag acatttctga tgcatagcca ggttcaagaa taactatttc aaaagtcacc 660  
 cacaggttaa aaaaaaaaaa aaaaaaactc ga 692

<210> 127  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

<400> 127  
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 gtagctcagg ctcccacagc cctgggtggt ctggctgtgg cctacggctt cacatcaggg 180  
 gctctggccc cactggcctt ctccgttctg cctgaactaa tagggactag aaggatttac 240  
 tgtggcctgg gactgttgca gatgatagag agcatcgggg ggctgctggg gcctcctctc 300  
 tcaggctacc tccgggatgt gacaggcaac tacacggctt cttttgtggt ggctggggcc 360  
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 actacctccg ggccccagga ccttgtaaca gaagcactag atactaaagt tccccaccc 480  
 aaggaggggc tggaagagga ctgaactcca cagagtcagg cccagaaagc caaagcttga 540  
 cagctccagg tcttctcttg ccacgtcttg gtctccacag aaccacagtg ccttaagatt 600  
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 gtattttgtt gagga 675

<210> 128  
 <211> 3669  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (199)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (2797)  
 <223> n equals a,t,g, or c

<400> 128  
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 aagctacagg gcaaggctag gtcaccctga tctcctagca gcttatcaaa agaattatat 120  
 gggcaagttg gcaaggctcc tgctgtgaac gaaatcatct gtccatctca agatgaagat 180

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gtggagctgg	agtacagaaa	gaccatgaaa	actacatgaa	aatattacta	aaagttggag	360
gcatattagt	catgcctata	gaggatcagt	taacacagat	tatgcgaact	ggacagaaca	420
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acttggtctg	tattttacatt	cgacgcacac	ttagaaattt	cataaatgat	gagatgcagg	600
ccaaggggat	tcctcaaagg	gctccaccca	aaaggaaaaag	aaagagagtt	aaacagagaa	660
ttaacactta	cgtattttgtg	ggtaatcagc	ttattcctca	gcctctagac	agtgaagagg	720
atgaaaaaat	ggaagaggat	awcaaagaag	aggaggaaaa	agatcacaat	gaagcaatga	780
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gattttaattt	tatatatggt	ttaaataatt	gttaagctta	tataacctga	tctgaattgc	1260
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<210> 129  
 <211> 667  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (571)  
 <223> n equals a,t,g, or c

<400> 129  
 gatcctctta ccttggcctc ccagaatgct gggattacag gtaatgagcc actgcacccg 60  
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 ccttttgacc acaagattct ctaggcacat cttatatatt tccggcccca gtccctagaat 180  
 cagccacttc tccaaggagc cctgattctt tttattagag aatgggtatta gaaaccaagt 240  
 tctaggcatt ggggtgtgct gctactggga tgttgtggct tgtaggacct ttcagctgac 300  
 tgagcaaggg atgtacatgt atgtatacta aactaagttt ttctgtatgc agtcattctgt 360  
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 ttctagcctt cttccttttg ttatctgtca cctctcactt ctacagacag aaaactggct 480  
 ttcattcatt accatctttt tacttaattg ttcaaacttg ggatacatat gcagatatag 540  
 tggcttcaga atacgtattc ccatggagaa naaccttatt aagtagagaa cagtgcctta 600  
 gtgtagtctc tgttgccctt agtcttatag acttcatttc caaagtttct tagcaccccc 660  
 cttcccc 667

<210> 130  
 <211> 561  
 <212> DNA  
 <213> Homo sapiens

<400> 130  
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 tgccctaccta tgcaatctgc atgggtgcttg tatttctatt gcttgtgcat ttgcacatca 120  
 taaacacaaa cacacacaca cacacacaca cacacacaca cacaggcttg cttccagagc 180  
 catacatgct ctattttcag tttctgagtg tctaagagg ttatatcctg tctagatgga 240  
 cggaccgaga gtacacttg atttctacca agatatattc tcctaattca ccagaacccc 300  
 ccgcttcttg cccatcccct acacagagca tctcacgcca tgcagtgcag ggaagcacat 360  
 tctcaaagc tcagctgccc acctctgagc aggtgcaa atcccccactg catcctccca 420  
 tccaccttct tcccctctga cttctgctct cctcctaaat ggtctctttt cccctgct 480  
 cctcctcctt cgtttccctt ctccagagag gcagagggtta ggtgtgcttg accagsattc 540  
 accaagtgca gacatcaaaa c 561

<210> 131  
 <211> 702  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (693)  
 <223> n equals a,t,g, or c

<400> 131  
 ggcggagctt gcagtgagcc tagatagagc cactgcactc cagcctgggc cacagagggg 60  
 gactctgtct caaaaaaaaaa gaaaaaaaaa agaaaaagag aaatctatga catcacttgc 120  
 caggctccca tgttcttacc tctgcctgcc ttgccagctc tctcctgct gtgccttctc 180  
 tcagcccatc tctgcacttc ttcccagctc ttcaaacctt gtgcttctct ctgccccag 240  
 gccctccagc caggggggtcc caggcaccag aagtgaattc cctcaaccc ccttctgtct 300  
 gccctccttc ccacgtgaat cttccttga ttcccttcat ctgggtcagct cccattagta 360  
 tgctctcttt gcagcctgcc ctttctcttt tcagtgcgtg atcacaactg tattaggcaa 420  
 tcacctgtct aatgtctgcc ttcttaatta gaacttcaaa ttcacgtggg cataacatcg 480

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agatacagtg	aagtgatgtg	gcaatattgc	taacttttaa	aaawttgtca	aagagatact	660
gagttcgagg	aagaggaaga	tagaaattat	gcnttggaatg	ct		702

<210> 132  
 <211> 483  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (416)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (422)  
 <223> n equals a,t,g, or c

<400> 132	
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agattatgca	ggaatttcta ttggaatact gggctgctat gtctcaggag tatttttacgc 120
atattattgt	aataactact ggcgtcagggt gtacttgatc acagtgcctg ctatgatcct 180
ggcagtggtc	tttgcgcaga ttcaccccaa ttacctcacg cagcaatggc aaaggctccg 240
ttctatcatc	ttttgttctg tttcgggata tggagtgatt cctactcttc actgggtttg 300
gctcaatgga	ggaattgggtg ctccatttgt acaggacttt gcaccccggtg taattgtgat 360
gtatatgatt	gctcttcttg ctttcttatt ctacatttcc aaagtcccag agcggnactt 420
tncagaatca	cttcacggtg gaatcatasa agggattgta ccactcgtca cgtgggtggg 480
aaa	483

<210> 133  
 <211> 748  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (15)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (37)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (62)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (65)  
 <223> n equals a,t,g, or c

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<400> 133
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cnaatncttcc aggcaggccc agaattaccg gaaaacaatt ctggacaact aactacctcg 120
gattcaagcc caccaaatat ggcatatcct tgcagtagtg atgttatatt ggtggcatca 180
gtcaacagtg tatgtcatgc agtacagaca tagcaagcct tgtcctgact atgtttcaca 240
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tgtaagaaaa ctgctctgcc tgggtgaactt cagcatagaa gagtgggctc caccttagat 660
tttccaccag caagaggaca acagtctatc actcttaaac aataaacagg gtaagactga 720
aaaaaaaaaa aaaaaaaaaa aaactcga 748

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<210> 134
<211> 652
<212> DNA
<213> Homo sapiens

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<400> 134
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cggtgactcc cgattccctg tcctaggctg cggtgccccg ggaggcgggt cgccagagta 180
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ttcccacaca cttcctatga ggtggcgaaa gccattatgc ctatggtgtc tgctcacaca 300
gggggaaact gagggccagg caggacagcc ccttgccctg ggtgggggct gggttgtcct 360
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gccagagtcc tgcagccagg cccagaccyt ggcctgtccg tccgggggatg ctggacagta 480
ctcctccctc cagccctcat aagtcatkgt cattcggats tgcatttccc cagccccctc 540
ccttctaast ggggggcact gtggccctact gtgccccttt ctcttcccat tccttcccc 600
tacaccatt ccagacatcc cagagttaac aaaacccaaa aaaaaaaaaa aa 652

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<210> 135
<211> 3006
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (2700)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (2711)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (2808)
<223> n equals a,t,g, or c

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<400> 135
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gtatgatgtc atgactcatt tgtaacagat ccagcctcag ggacagccct gtaaggcagc 120
aagtggggct ggctccaaat gggatagagt ctccagaatct ttggtaaggc agaactgaac 180
tgggctgaga ggtgggtctta aggcctgggc aggcctctatt ctctctggac tggctgcagc 240
ctgcagtcta ggagaggccc agtacagcct ggagctcctg agccttgtca acaggcagtg 300

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agcccagagc	tgcttgaaag	ctgtcgggtg	gctgttttggc	caggaacgtc	aggagcagca	360
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<210> 136

<211> 720

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (657)

<223> n equals a,t,g, or c

<400> 136

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tttatgagtt	cctggat	gtggatgcca	ctgaccgata	cagaagcctg	tgggtctgga	180
ggttgctggg	catgtcggca	ggcgtgtgtg	gcacacagc	cttgggtggg	cagctggact	240
gcttcctgat	gaccagtggc	ccccgagg	tggtccactt	ctatgggtac	tcggtggtca	300
gcaccctggc	cttactggtg	agcattgcct	ttcccattcc	catctgtcag	cagtgggagc	360
ccagctacaa	aagggtcaaa	gcactgtcca	ttgtgggggg	tgacccccac	ctcattctcc	420
tcgcctccac	cactgttttg	gtaggagcca	tcgtcagtag	tgtccagaac	tttctgttct	480
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tgctggggga	aattctgctt	catccgttca	aagctacatt	gcttaggaaa	ctgtccagga	600
cgggcctsgt	ggggctgggg	ctgagctgcc	tcgctgggca	gctgctgtac	tactctngcc	660
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<210> 137

<211> 463

<212> DNA

<213> Homo sapiens

<400> 137

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tctctgcttt	catggactgt	ttgtgggtgg	ggtgaggtgg	tcagtgggtcc	tccttgtgct	180
gtgtctgcct	ggggctgctc	gtgggcaacg	tggtgcactc	cctctgtcgt	ggtgcagctg	240
gcaccatcag	gtgctgttca	aaccctctcg	agccccgagc	tgcttgkgat	ctcatttcaa	300
ctccatgcag	cccctctagg	gcagttttat	ttccccattt	tacagatggg	aaaagagaaa	360
ctcagattgc	gtaacatgcc	caaggaagca	ccggycccag	wgtttgyttt	gtttgwtttg	420
sttttgagga	gsagmctctg	tcaccacaggc	tggagwgctg	gag		463

<210> 138

<211> 699

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (155)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (656)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (658)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (664)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (678)

<223> n equals a,t,g, or c

<400> 138

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gccagccta	gttgcacctc	tttgccctca	gatantgact	tttggggcac	tgtacatcac	180

tctcattcgg	catctttttac	ctggtggtgg	tagtgagaga	tagtcgtctt	ctctcttctc	240
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aaagtgtgtt	gaccaaaggt	gttgctgagt	ttgaacacat	tgcataattt	aattgcaata	360
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tcttgtcttc	ccagtggggc	attctgcctt	ttgttaagca	gtgttctggg	aattatagtt	480
ctgaattcca	ctgacacaat	ctcctcttcc	caccctccgc	tctcctcaaa	cttgccctca	540
tggggctaca	ctaccacaaa	ggcacatctc	tccttagggc	tggwgggctt	tgctggsaag	600
gagaacatga	aagaattgya	tgyasagagy	tccagaagct	tctagacatt	tcctgncttg	660
ttgnttgccg	tgggttttnt	tgaggcacia	tattgttca			699

<210> 139

<211> 950

<212> DNA

<213> Homo sapiens

<400> 139

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gtgctccccg	acccggcgag	ccttcggggc	gcgcgtcgtc	ggtgggtggt	gaggctctag	180
cgataataaa	tgatagagga	tacaatgact	ttgctgtctc	tgctgggtcg	catcatgcgc	240
tacttcttgc	tgagaccgca	gacgcttttc	ctgctgtgca	tcagcttggc	tctatggagt	300
tacttcttcc	acaccgacga	ggtgaagacc	atcgtgaagt	ccagccggga	cgccgwaag	360
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ctcgaggccg	agttttccaa	gacctgggag	ttcaagaacc	acaacgtggc	ggtgtactcc	480
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aagacgcacc	cgtccatctt	cgggatcttc	gacgggcacg	ggggagagac	tgcagctgaa	600
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aaagaaaata	gtgtattatc	ttaccagacc	atccttgaa	agcagatttt	gtcaattgac	720
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tgtgacaaag	atgggaacgc	tattcctttg	tctcatgatc	acaagcctta	ccagttgaag	900
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<210> 140

<211> 2952

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (12)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (199)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2938)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2952)

<223> n equals a,t,g, or c

<400> 140

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cagtgaaccc	acccctttcc	tgccctgcag	cgtaamcatt	ccccagcctc	ctacaggcag	180
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<210> 141

<211> 776

<212> DNA

<213> Homo sapiens

<220>  
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 <222> (631)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (755)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

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 gttttgcttt gctagcccca tgagactgcc aaaagcttta cttgcattct ctgcctgttg 480  
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 cataaatctt gractcttca gtcttggtg ntttggtagc ttccaatgg cttyacatgg 660  
 acacttccca accccggccc cagcatctgg cytttcttgg aagtctcaac taagcctggg 720  
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<210> 142  
 <211> 702  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<400> 142  
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 agaagtgtta ctagacctgc cactgctacc tacagtgagc cccattctgc acacagaggc 180  
 tgcggactcc tttttcccaa tcatagacca gaatgcttgt gaaagaagat gtggctgttc 240

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cagagtgcag	gactgagcgt	gctgctaate	ttgttctggt	cgagagactg	atgagagaga	420
caagaattat	ggcgcgagaa	aagcagcagc	agcagcagca	agtctgcaga	ggggaatgcc	480
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gatacagagt	ttcactctgt	cacccaggct	ggagtagagt	ggtgccatct	cagctcattg	600
caacctctgc	cccctgggtt	caagcaattc	tcctgcctca	gccttycgag	tagctgggat	660
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<210> 143  
 <211> 798  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (2)  
 <223> n equals a,t,g, or c

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ggcagtttca	aggttactat	tctcatgatt	caacacatcc	tcaaggagtg	agattcagtc	120
tgtgtaagtg	tatcatgact	ttctataaca	cgccttgta	tgactcttc	taccctgcta	180
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aaccacctgt	gcctcagaat	gggactatgt	ttggagaaaag	ggttttaaaag	agggtacttaa	360
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<210> 144  
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 <212> DNA  
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<220>  
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 <222> (442)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (484)  
 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (549)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (564)  
 <223> n equals a,t,g, or c

<400> 144  
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 ttagtagaga cgggggtttt ccatgttggc caggctggtc tcgaactcct gacctcacat 180  
 gatctgcgca cctaggcctc ccaaagtgtt gggattacag gtgtgagcca tcgcaccggg 240  
 ccaggcttac ctctttgtac ctattttgtt gaagctgaac tgaggcctgg ggtgcttgca 300  
 ctgtcttggg gccctgaaaa gtccaaggca cagcagtcga taaatagcaa ctaaataaat 360  
 gatgataaat atctaataca agttcgatga tagatatcaa attatattaa taaatatcaa 420  
 ataacatcsa ttgtaaatat cnaataaaaa ttagattctt ttaatttttt taaagacaca 480  
 gtgncaggtt ctgttgccca ggctggagtm cagtggcacg atcatagctt actgnanctt 540  
 gaactccna gcttaagcca tctnca 566

<210> 145  
 <211> 1939  
 <212> DNA  
 <213> Homo sapiens

<400> 145  
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 accaggcctg gagactggcc atctggctcc gtgcccgctt cgctccaca ttaccccgctc 240  
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 agtcttatac ctgccaccct cccctacccc aggcctcca ccaactaagc cagctgccac 360  
 ygtgtactcg gtccgggacc cttggcgaca gaagacagcc tccgagagcg cgggctccaa 420  
 gggcaataaa gcagctccac tctctctact tggttctttt tgttcttgcg tctccagtcc 480  
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 agccctgtgg ccagcgtgtt ggggtggaaa ggcgactgct cctgcctggg ctgcagctgg 600  
 gcctgacctg gctgcaagca caggtgttgc tttttggggg aagggatgtg tcggggctcg 660  
 ggccctggcc tcagggttct ccagcaacac ctatgggtag gaggcagctt ccgctaggcc 720  
 acatcattgg ctacagctcac gggactgggg ctctgacgtt ttagggcgcr ctgtggcatt 780  
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 caggctcgtg actgccagct ggacagagaa gaccacggcg ggggtgccatg ggcgctgctt 1680  
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 caagaagttg gcagggcagg acttggcacc cgagacgttg gctgccatgc tcccgctgccg 1860  
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1939

<210> 146

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (124)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (128)

<223> n equals a,t,g, or c

<400> 146

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ttcnttantg	ggcattattc	ttgcaagtgt	gagagccaga	gaggggcatg	tgtagtatcc	180
atgtcacaaa	acagggctcc	atcctccttt	gtgtggtttc	tgtgtctagc	atgtcatctt	240
ccttcctgcc	cctctgcaac	tgaggaattt	gctgtcttta	tacccaagta	tcacagcagc	300
agaatggggg	ctgccccatg	ccatgtcctc	ggtcatggtg	gtatcaaagg	caacacctgc	360
caggacaatg	ctggttatga	tttctgccgt	cccttgggac	tggcctcatt	ccttaagagg	420
caagattaaa	aaaaaataaa	aagccaggca	cgagggtcca	tgcctataat	cccagcactc	480
cagcactttg	ggaggccaaa	gcggaggatt	gcttgaactc	aggagtccra	gaccagcctg	540
ggcaacatag	cgagacccca	tctctacaaa	aaatttaaaa	atgaggcagg	tatggaggta	600
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<210> 147

<211> 2032

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> n equals a,t,g, or c

<400> 147

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catgtcgcgg	gcctcgctgg	gactccctgg	gagatgaggc	cgcgaggctc	cccgccgctc	180
ctggtggtgc	tcctgggctg	ctgggcctcc	gtgagcgccc	agaccgatgc	caccccggcg	240
gtgacgacag	agggcctcaa	ctccaccgag	gcagccctgg	ccaccttcgg	aactttcccc	300
tcgaccaggc	cccccgggac	tcccagggtc	ccagggccct	cctccggccc	caggcctacc	360
ccagtacagg	acgttgctgt	tctctgtgtc	tgtgacttat	ccccagcaca	gtgtgacatc	420
aactgctgct	gtgatcccca	ctgcagctcc	gtggatttca	gtgtcttttc	tgctgtctca	480
gttccagttg	tcacgggcga	cagccagttt	tgtagtcaaa	aagcagtcac	ctattcattg	540
aattttacag	caaaccacc	tcaaagagta	tttgaacttg	ttgaccagat	taatccatct	600
attttctgca	ttcatattac	aaactataaa	cctgcattat	cctttattaa	tccagaagta	660
cctgatgaaa	acaattttga	tacattgatg	aaaacatctg	atggttttac	attgaatgct	720
gaatcatatg	tttccttcac	aaccaaactg	gatattccta	ctgctgctaa	atatgagtat	780
ggggttcctc	tgcagacttc	agattcgttt	ctgagatttc	cttcgtccct	gacatcatct	840
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aaaataaatt	tagaacagtg	tgaagaaatt	gaagccctca	gcatggcttt	ttacagcagc	960
ccggaaattc	tgagggtacc	tgattcaaga	aaaaaggtcc	ctatcactgt	tcagtccatc	1020
gtcatttcagt	ctctaaataa	aacgctcacc	cgacgggagg	acactgatgt	gctgcagccg	1080
actctcgtea	acgctggaca	ctttagcctt	tgcgtgaatg	ttgttcttga	ggtaaagtac	1140



agcctcacat	acacagatgc	aggtgaagtc	accaaagctg	atctctcatt	cgttctgggg	1200
acagtttagca	gcgtagtggg	cccactgcag	caaaagtttg	aaattcattt	tcttcaggaa	1260
aatacccagc	cagtccctct	cagtggaaac	cctgggttatg	tcgtggggct	cccattagct	1320
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cttactattc	ttcatagcac	aactgagcaa	gactgcttag	cactggaggg	ggtccggacc	1440
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ccgtgtcagc	tcgtagcaca	gaaggtgaag	agcctgctgt	ggggccaggg	cttcccagat	1560
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gctccaccag	ccatcaatgc	caggctgccc	tttaacttct	tcttcccgtt	tgtttgacaa	1920
tgctcagatg	catcagttcc	ttaatatata	cgtgaaattt	gaaaactgta	cattcgggtga	1980
gattaaattt	tatatacaac	tarmaaaaaa	aaaaaaaaaa	aaaggtcgac	gc	2032

<210> 148

<211> 1048

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (965)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1024)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1026)

<223> n equals a,t,g, or c

<400> 148

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tgcaggtgga	tttcagtgtg	ttctttggat	ggcaggcctt	aagagaagag	tcccactgca	120
cagcctcaga	tacttcatct	ccatgggtggg	tctcttctcc	aaaccaggac	tgcttccctg	180
gtatgccaga	aatccaccag	gatggtcaca	gctctttctg	ggcacagtat	gtaagggaga	240
tttaccctgt	gtgatagcca	cgaatgtca	gaaaggacaa	aaaagtcaga	agaaaccaag	300
ccatcttggg	ccactagatg	gttcctggca	ggaaaggctg	gctgatgttg	tgacaccact	360
ctggagggtg	agctatgaag	aacagctcaa	ggtgaaattt	gcagctcaga	agaaaatttt	420
acaaagacta	gagtccttaca	tccaaatgct	caatggagtc	agtgtgacaa	cggctgtacc	480
caaactctgag	aggctctctt	gtcttctcca	tcctattata	cccyctcctg	tcatcaatgg	540
ttaccgaaat	aagtccacct	tctctgtgaa	ccgaggtcca	gatggcaatc	caaagactgt	600
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gaaaaacatc	cctgagaaac	acagtcaagt	ggcgcagtag	tatgaagtat	tccttcgaca	720
gtctccattg	gagccctgcc	ttgtatttca	tgaaggtgga	tactggcgtk	agctcacagt	780
ccgcaccaat	agccaagggc	acacaatggc	tatcatcact	ttccatcccc	agaaattaag	840
tcaggaggag	ctccatgttc	agaaggagat	tgtaaaggaa	tttttcatca	agaggtcctg	900
gagcagcctg	tggcttgacc	tcactttact	tccaggaaag	taccatgacc	cgttgcaacc	960
atcancagtc	tccttatcaa	gcttctgttt	ggggaacctc	catcttttga	agaacttctg	1020
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<210> 149

<211> 701

<212> DNA

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (691)  
 <223> n equals a,t,g, or c

<400> 149  
 gcttaattct cctgagaaca tgacatcacg caagggtaca tggagataaa tctcttgaag 60  
 agcaaactgt caggaaatgt ccaacacaaa tggcagtgc atcacagaat tcattttact 120  
 tgggctcaca gattgcccgg aactccagtc tctgcttttt gtgctgtttc tggttgttta 180  
 cctcgtcacc ctgctaggca acctgggcat gataatgtta atgagactgg actctcgcct 240  
 tcacacgccc atgtacttct tcctcactaa cttagccttt gtggatttgt gctatacatc 300  
 aaatgcaacc cgcagatgt cgactaatat cgtatctgag aagaccattt cctttgctgg 360  
 ttgctttaca cagtgtctaca ttttcattgc ccttctactc actgagtttt acatgctggc 420  
 agcaatggcc tatgaccgct atgtggccat ataagaccct ctgcgtctaca gtgtgaaaac 480  
 gtccaggaga gtttgcattc gcttggccac atttccctat gtctatggct tctcagatgg 540  
 actcttccag gccatcctga ccttccgcct gaccttctgt agatccaatg tcatcaacca 600  
 cttctactgt gctgacccgc cgctcattaa gctttctgtt gtctatgcaa gacatgcatg 660  
 tmattstgct gaactctcag tcctacatcg ntggggccagc t 701

<210> 150  
 <211> 617  
 <212> DNA  
 <213> Homo sapiens

<400> 150  
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 tgcttctctg cttctccatc ttctccacag aagggaagag gcgtcctgcc aaggcctggt 120  
 caggcaggag aaccaggctc tgctgccacc gagtccttag ccccaactca acaaacctga 180  
 aagccttcac agcagtggag tgcaatgttg gagggcttca tctcgggctg caaggaccct 240  
 gggaaagtgc cagaactcca cgtccttgct tcaattgtgc catcaacttt cagagctatc 300  
 atgagccaac ctacccccac agggcctcag tcgccaccat gtgggcctct ccagtgcaaa 360  
 ccaccgagca ttccaccatg accggtcaca gctacaaatc cagagaccat caatcctgct 420  
 agagtgcagg gtggcaagca cccaagggtg gctgaccaag actgcagagt ctctccatc 480  
 ttcagggtcca ttcagcctcc tggcatttaa ctaccagcat ccagtggkcc ccaaggaatc 540  
 ccttcctagc ctcttgacat gagtctgctg gaaagagcat ccaaacaac aagkaataaa 600  
 taaataaata aactcaa 617

<210> 151  
 <211> 881  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (864)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (869)  
 <223> n equals a,t,g, or c

<400> 151  
 gccacgcgt ccgcacagct cccttcccag gacgtgaaaa tctgccttct caccatgagg 60  
 cttctagtcc tttccagcct gctctgtatc ctgcttctct gcttctccat cttctccaca 120  
 gaaggaaga ggcgtcctgc caaggcctgg tcaggcagga gaaccaggct ctgctgccac 180  
 cgagtcccta gcccacactc aacaaacctg aaaggacatc atgtgaggct ctgtaaacca 240  
 tgcaagcttg agccagagcc ccgcctttgg gtgggtgctg gggcactccc acaggtgtag 300  
 cactcccaaa gcaagactcc agacagcgga gaacctcatg cctggcacct gaggtacca 360

gcagcctcct	gtctcccctt	tcagccttca	cagcagtgag	ctgcaatggt	ggagggcttc	420
atctcgggct	gcaaggaccc	tgggaaagtt	ccagaactcc	acgtccttgt	ctcaattgtg	480
ccatcaactt	tcagagctat	catgagccaa	cctcacccca	cagggcctca	gtcgccacca	540
tgtgggcctc	tccagtgcga	accaccgagc	attccaccat	gaccggtcac	agctacaaat	600
ccagagacca	tcaatcctgc	tagagtgcag	ggwggcaagc	acccaagggg	ggctgacca	660
gactgcagag	tctcctccat	cttcagggtc	attcagcctc	ctggcattta	actaccagca	720
tccagtggtc	cccaaggaat	cccttcctag	cctcctgaca	tgagtctgct	ggaaagagca	780
tccaaacaaa	caagtaataa	ataaataaat	aaactcaaaa	aaaaaaaaaa	aaaaaaaaaa	840
aaaaaaaaaa	aaaagggcgg	ccgntctana	ggatccaagc	t		881

<210> 152

<211> 576

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (436)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (488)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (510)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (531)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (551)

<223> n equals a,t,g, or c

<400> 152

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ggctgtctcg	cccgtgctt	ttggccgtcg	gctgcctggc	cgcgctctgc	gtaatcacag	120
cggctgggaa	caccaccctg	gccccgaacg	tgactacagc	ctcgtctcca	ccgcccacca	180
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aggtgggtgaa	caccacagga	ttctgttctg	ctaaaaccac	aactctgcct	tccactacta	420
caacttccac	cacagntact	acatcaggta	caactaatac	cactctatct	ccaactatac	480
aacctacnecg	gaagtctacc	tttgatgcan	gccagtttca	ttggaggaat	ngcccttgct	540
tgggtgtgca	ngctgtaatt	ttctttctct	attaat			576

<210> 153

<211> 637

<212> DNA

<213> Homo sapiens

<400> 153

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ggcatgagcc	gctgcacctg	gccttcattt	agtttctttc	tttcttcctt	tctttctttt	120

tttagatgga	gtctcgctct	gtcagccagg	ctggagggca	gtggcgatgat	cttggctcac	180
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attacaggca	tgagccgctg	tgctgacgtt	catttggttt	ctataatcac	caaagcccat	300
ctgggtctcat	ggcccttgca	gatgaatatc	ctcccttaga	acacatcttc	ccaagagtt	360
caccctgatg	gcaacttctc	atccattagg	cctcagcttt	aatgtatcat	cttcagggat	420
gcttttactg	tccctccct	ccagtgtaat	ctagatccct	gtctctatta	cccagcactg	480
tcaacagata	gaaatgttcc	ctatctgtcc	tgtccaatat	tacagccacc	actgtatgtg	540
gtcagtgagc	acttgaaatg	tgaactgaat	tttaagattc	gatttaatat	taatttattt	600
aaatgtaaac	aaccacatgt	ggccagtggc	taccaga			637

<210> 154

<211> 800

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (19)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (100)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (150)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (156)

<223> n equals a,t,g, or c

<400> 154

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cccatggatg	ctcctctgaa	gagactttcn	tcattnactg	ccgaggcccc	atgaawcaat	180
gtctgggtasc	caccggwayt	masgaaccgr	aaaaccmaag	ctatatggta	agaggctgtg	240
caaccgcctm	aatgtgcmaa	matgccmacc	tgggtgacgc	cytcagcatg	aaccacattg	300
atgtctcctg	ctgtactaaa	agtggctgta	accaccaga	cctggatgtc	cagtaccgca	360
gtggggctgc	tcctcagcct	ggccctgccc	atctcagcyt	caccatcacc	ctgctaata	420
ctgccagact	gtggggaggc	actctcctct	ggacctaaac	ctgaaatccc	cctctctgcc	480
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agctatctca	caaagttgtg	tgaagcagaa	gagaaaagct	ggaggaaggc	cgtgggcca	660
tgggagagct	cttggttatta	ttaatatgtg	tgccgctgtt	gtgttggtgt	tattaattaa	720
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aaaaaaaaa	aaaaactcga					800

<210> 155  
 <211> 684  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (668)  
 <223> n equals a,t,g, or c

<400> 155  
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 caggctggag tgcagtagct caatctcagc tctactgcagc ctcaacctgc tggactcaag 180  
 cagtcctccc accccagcct cccaagtagc tgggactaca gatactcaac accacacccg 240  
 gctaattttt ttgtagagat ggaatttcac catgttgccc aggctgggtct cgaactccta 300  
 ggctcaggcg atctgcccac ctcaacctcc cacagtgcgtg gtattacagg cgtgaagcca 360  
 ccacgcccc ccaagattga tttcttctga ggggtctctt cttggccatc ttctgtgtct 420  
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 ggtctgctgg tttcactgct ctggaatctg gagtgaagtc attgagctga aggttggatg 600  
 ggagggacat gktctcccgt ggaggcgca cgttktgag ttaaggtgg tggagcactt 660  
 gatatcanaa atgggtgccc gcgg 684

<210> 156  
 <211> 1574  
 <212> DNA  
 <213> Homo sapiens

<400> 156  
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 attttccaaa gctaaaatct gaggcgtggg ctgatggttt ttgaaatcag gattaccca 180  
 ggaagaacca ggtcctatta ctaattttcc tgattctgag gctctgaagg cttgtctgag 240  
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 tcagaagagt tgaattcagc aggagacggg agcccgggtg ccatgaggga agaggggtcg 420  
 cgcttggttt ctactgacct ccatgaagat ttcagacttg cagtgcggcc acctggccct 480  
 gccctgcctc tctctttctc atacagcttt aaaactttac tactttttatt taaaaatgaa 540  
 ctggatggga gagaagtagc gtcccctacc ctacaagtca cacattccgg ggakgggggt 600  
 ggggggtgga ggcaggaagt catgggggtg ggggtgggag cacgggaaca gctttcttaa 660  
 ggcctcaggg tctgttttct cctggcctct tctagagggc ccgtggacag gtcgcagtgc 720  
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 ggagcccttg tacctggctg ccctgagagg agcaagaggc cacctcccat gtggctctag 840  
 acaccacgtg ggctcattag cccagcgtc tgtgccggct ccagggtgcct gcctctgggt 900  
 gtgtgagtg gagactttgc tccctggcct catcctagag aggcccttg tgcctagtgc 960  
 tgaggcctct ggggctggaa agcctcagca gaaaggaggc actactgagc aactatgcat 1020  
 tgtcattgtc ggggttgggg ctttcgggtg ttccttggtg actgggaatt gcttgtgtgc 1080  
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 acgaaattgt aaattttatt gttttaacgt gtatgcatgt ttagtgacgt ttacattttg 1500  
 aaataaaatt tatgattcat taaaaaaaaa aaaaaaaaaa aaaaaaacy cgaggggggg 1560  
 cccggaacct matt 1574

<210> 157

<211> 2050  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (878)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1573)  
 <223> n equals a,t,g, or c

<400> 157  
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 gaggcgcgcg gttctcggcc gggacagcag aacgccaggg gaccctcacc tgggcgcgcc 120  
 ggggcacggg ctttgattgt cctggggtcg cggagaccgc cgccctgcc ctgcacgccg 180  
 ggcggcaacc tttgcagtcg cgttggtgc tgcgatcggc cggcgggtcc ctgccgaagg 240  
 ctccgctgct tctgtccacc tcttacactt cttcatttat cgggtgatca tttcgagagt 300  
 ccgtcttgta aatgtttggc actttgctac tttattgctt ctttctggcg acagtccag 360  
 cactcgccga gaccggcgga gaaaggcagc tgagcccgga gaagagcgaa atatggggac 420  
 ccgggctaaa agcagacgtc gtccctcccg cccgctatct ctatattcag gcagtggata 480  
 catcagggaa taaattcaca tcttctccag gcgaaaaggc cttccagggt aaagtctcag 540  
 caccagagga gcaattcact agagtggag tccaggtttt agaccgaaaa gatgggtcct 600  
 tcatagtaag atacagaatg tatgcaagct acaaaaatct gaaggtggaa gttaaattcc 660  
 aagggcaaca tgtggccaaa tccccatata ttttaaaagg gccggtttac catgagaact 720  
 gtgactgtcc tctgcaagat agtgcagcct ggctacggga gatgaactgc cctgaaacca 780  
 ttgctcagat tcagagagat ctggcacatt tccctgctgt ggatccagaa aagattgcag 840  
 tagaaatccc aaaaagattt ggacagaggg agagctantg tcactacacc ttaaaggata 900  
 acaaggttta tatcaagact catggtgaac atgtagggtt tagaattttc atggatgccca 960  
 tactactttc tttgactaga aaggtgaaga tgccagatgt ggagctcttt gttaatttgg 1020  
 gagactggcc tttggaaaaa aagaaatcca attcaaacat ccatccgayc ttttctggtt 1080  
 gtggctccac agattccaag gatatcgtga tgcctacgta cgatttgact gattctgttc 1140  
 tggaaaccat gggccgggta agtctggata tgatgtccgt gcaagctaac acgggtcctc 1200  
 cctgggaaag caaaaattcc actgccgtct ggagagggcg agacagccgc aaagagagac 1260  
 tcgagctggt taaactcagt agaaaacacc cagaactcat agacgctgct ttcaccaact 1320  
 ttttcttctt taaacacgat gaaaacctgt atgggtcccat tgtgaacata tttcattttt 1380  
 tgatttcttc aagcataagt atcmaataaa tatcgatggc actgtagcag cttatcgcct 1440  
 gccatatattg ctagtgtgtg acagtgtgtg gctgaagcag gattccatct actatgaaca 1500  
 tttttacaat gagctgcagc cctggaaaca gtttaagagca acctgagcga 1560  
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 caaacttttc caggaatatg ccaatttaca agtgagttag ccccaaattc gagagggcat 1740  
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 gaccaaagat gaactctgat atgcaaaata acttctatta gaataatggt gctctgaaga 1860  
 ctcttcttaa ctaaaaagaa gaattttttt aagtattaat tccatggaca atataaaatc 1920  
 tgtgtgattg tttgcagtat gaagacacat ttctacttat gcagtattct catgactgta 1980  
 ctttaaagta cttttttaga attttataat aaaacmccct ttatttttaa aaaaaaaaaa 2040  
 aaaaaaaaaa 2050

<210> 158  
 <211> 638  
 <212> DNA  
 <213> Homo sapiens

<400> 158  
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 ggattatctc atggcctgtg tggctgtctg tctttatctc tagtgacatc tctgcttttc 180

tctgccaaaga	tttatccctt	ctctgcagcc	acttgctgtc	cagcttccct	tctttgtaga	240
atctgcctct	gcccaatacc	tttactttcg	tgtggcctct	ctgggctcct	ccatatcatg	300
acctgkcagc	tcctctttta	ctccttttct	ctctcaagt	tttctcagat	cagagaccag	360
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ctttggatta	tatgcctttg	gttcaggcac	ctacccttgg	tcctggctgt	tggggatgga	480
tggtgactgk	tatgtggcct	ttacaggctt	taggcacaat	aaagctttcc	caggttcagc	540
ctactgagt	ctatggctat	gacctggaca	ttaaactggc	cctcataggt	tcagacctgg	600
ccatggcaat	tgacgaaccc	taccacaggg	ctcttgga			638

<210> 159

<211> 1332

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (50)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1323)

<223> n equals a,t,g, or c

<400> 159

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tgcaaagaaa	atatgggttg	agaattcttg	caattttaatt	ttagtaaatt	ctttatcttt	180
tttattacca	taccttaaaa	ttgctatgca	catattttct	gtctcagtta	tgtactcaac	240
tagaaattac	ctttacttwa	ctacctgtat	tttattgaaa	tactgtgcc	atcctgcatg	300
gactattttg	cgtcacttat	tttatgaata	tcactatttg	atatgctctt	ttgcaccaat	360
agactcttat	tcaggtatga	cacacagaga	cacaaaatgc	taaattctcc	tttcctgtga	420
ccatggcaga	aactactaat	caatattctt	gggcaaagtt	ggttctcaag	atgctcaagc	480
tctgctgttg	tcataaagca	ttttggttct	cttctgatac	tttttgaaga	ctcatccatt	540
tttcattctt	tcagcaaaca	tgaccatgat	accccatata	gaccagatat	tgtgctacag	600
ttgcgaaaac	aaagaataag	agaggctctc	aagcggctca	acatctcatg	gtgaaaatga	660
gatgctgagc	caccactaac	atgctagctg	ttaagtatgt	ccacttaaaa	gagaacacag	720
gagaaacatc	tcaggcggac	tctgttggcg	tggttgggtg	tgagggaatg	ttgaagagtg	780
gatagaggta	taattaaagg	ctttctggat	ggcgtgggtg	cttatatgag	tagtcccagc	840
actttgggtg	ggattacagc	acttgaggtc	aagagctgga	gatgtgcctg	gccaacacgg	900
tgaaacccca	tctctactaa	aaatacaaaa	attagcagct	gagcgtggta	gtgtggcgcc	960
cgcaatgcc	gccacacggg	aggctgaggc	atgagaatca	cttgaactca	ggagggtggaa	1020
gtctcagcgg	gcggagatcg	caccactgca	ctccagccag	ggtgatgaag	cgagactctg	1080
tcaatcaaac	aatcaatcaa	tcaatcaatc	aatcaaggct	tcccaagggg	gaggaatctg	1140
gcatttttgt	aggcaaagga	aacagcttat	aagatgtgag	agaacacagc	catttttagag	1200
aagtgtactc	gtgccgaatt	cctgcagccc	gggggatcca	ctagttctag	agcggccgcc	1260
accgcggtgg	agctccagct	tttgttccct	ttagtgaggg	ttaatttcgm	gmwggggtaa	1320
tcngcgtatc	at					1332

<210> 160

<211> 1267

<212> DNA

<213> Homo sapiens

<400> 160

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cgcccttaca	gccccagaa	cctggactgg	agggggccat	ggggcaccg	accctggtcc	120
tgccttgggt	gctgctgacc	ttgtgtgtca	ctgcggggac	cccggaggtg	tgggttcaag	180
ttcggtatgga	ggccaccgag	ctctcgtcct	tcaccatccg	ttgtgggttc	ctgggtctg	240
gctccatctc	cctgggtgact	gtgagctggg	ggggccccga	cgggtgctggg	gggaccacgc	300
tggctgtgtt	gcacccagaa	cgtggcatcc	ggcaatgggc	ccctgctcgc	caggccccgt	360
gggaaaccca	gagcagcate	tctctcatcc	tgggaaggctc	tggggccagc	agcccctgcg	420
ccaacaccac	cttctgctgc	aagtttgcgt	ccttccctga	gggctcctgg	gaggcctgtg	480
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acctccttca	tctgctgctc	cgacataagc	accgccctgc	ccctaggctc	cagccgtccc	660
gcaccagccc	ccaggcaccg	agagcacgag	catgggcacc	aagccaggcc	tcccaggctg	720
ctcttcacgt	cccttatgcc	actatcaaca	ccagctgccg	cccagctact	ttggacacag	780
ctcaccacca	tggggggccg	tcctgggtggg	cgtcactccc	cacccacgct	gcacaccggc	840
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ctcttttccc	tgaccctcgg	ggggccaggg	ccatggaagg	acccttagga	gttcgatgag	1020
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gatgtggtct	gtgtgcgtgt	gtgggcacag	gtgtgagtgt	gtgagtgaca	gttaccat	1200
ttcagtcatt	tcctgctgca	actaagtcag	caacacagtt	tctctgaaaa	aaaaaaaaaa	1260
aaaaaaa						1267

<210> 161

<211> 476

<212> DNA

<213> Homo sapiens

<400> 161

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aggcccccac	ccagggcaca	ggctcaggct	gagcggggtg	gtggatgggc	tggagccggg	120
gagaagggca	gcaaggctgg	ctggccgcag	ccctctgtgg	ctggacacga	cttggcaagg	180
ccgagggatc	tgagggctgg	gctactctcg	agggtgccca	ggttcccagc	ttgctgcagg	240
gaaatgaagg	gggtgccgcc	ctgaacaggc	acatgcctaa	gcaaggtatt	gacgcttgga	300
taaagctggc	aaccaccagg	agaagccttt	ttgggatttt	tcaaatacct	cgycatccga	360
gctgtgatga	tggagtggar	cgtkgcacgg	gccatttgga	gttctgtkkg	ctccatcggm	420
actarcaggg	atttgrackt	caggctgggt	ggccttgcag	gaagcctgct	ccctgc	476

<210> 162

<211> 1040

<212> DNA

<213> Homo sapiens

<400> 162

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cataagctag	tttctgttct	gtaaagtgat	atctttcata	cttgaccaa	gttcccaata	120
acttcccaac	cactgttcaa	aagctgtgat	ttttgtctcc	ccttcccacc	ctccagccaa	180
ggagcagccc	tgcccagggg	gcattaggtg	tgggtacccg	gggagcacc	cgttcctgga	240
ccccagtgtt	gcatttctctg	gctgaggaag	ggtggtcatc	ccagctcctg	ccctaccctc	300
tcacttaact	ggagcttttg	gacgcacct	ccacagtggg	aggtggtggt	gggtggcggg	360
ggcggggcct	cacgacagct	tggtgctggt	aagaggaagc	ccgtggttct	ggctaggctc	420
tcctgtccag	acagcgggga	ccaggggaaa	accagcccc	ttctgtaate	ccccctcatt	480
tcctactctc	cttctctctc	tgtttagcaa	aggagggcag	ctcacttgga	tgctcttaca	540
acgcccctgg	ccccagggtg	agcaataaga	aaccagaacc	ttgcggccca	gtggcccggg	600
ccagttcagg	ccgcctcccc	ctcctctgct	tggggccatt	gagcccagcc	tccagggccc	660
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catacagtat	taggtgagga	tggatgcggg	cgctgtcctt	gccgggaagt	cactgttgaa	900
gttcagtggt	cttggttcaca	cctgtgggaa	gagaagtga	gactttctcc	ttgcattaaa	960



aagtctgaac tgtgaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaagaggt	1020
tctagatcgc gagcggccgc	1040

<210> 163  
 <211> 621  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (8)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (24)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (60)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (119)  
 <223> n equals a,t,g, or c

<400> 163	
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accttcagca gcccggggtt ccaatcccag ctccctccatg tgggagccaa gcaccccang	120
cagcctttcc cagccttgct tagggccggg ttgggagaaat cccacccgc agggctgtgg	180
tgagggttga acggagggtg tgtggtgagg gttgagcggg ggggtgtgtga tgcgtggtga	240
gggttgagca ataagaaacc agaaccttgc agcctccagg gccraatgc gtttgcaggc	300
cagtggccac tgtccgggct gtgatggcac caaggcagggt ggagcaccag gtaccacaca	360
gctgggcttc ccaccaggct ttcccgcggg ggtctcaggg agcttctccc cagcgctgct	420
sggagtctgc aggaactggc cttgttctcc ttagcccgct actccatata gtattaggtg	480
aggatggatg cgggcgctgt ccttgccggg aagtcactgt tgaagttgca gtggcttggt	540
cacacctgtg ggaagagaag tgaagacttt ctcccttgcac taaaaagtct gaactgagaa	600
aaaaaaaaa aaaaaactcg a	621

<210> 164  
 <211> 601  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (592)  
 <223> n equals a,t,g, or c

<400> 164	
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taagtakaca gcaactgagc cctccctccc accccagggy tcccagagca acaggagca	120
gggagcatag gacctggccg sagccaggaa tctacactga ccggctcagc ccatgaagta	180

tcttgggctg	aagtcacagg	atgagactgt	ttgtatctgt	aactgtcctt	gtcatctgtc	240
ttgcagat	agaagaggaa	tcagaaagct	gggacaactc	tgagtctgaa	gaggaggaga	300
aagccccctg	gttgccagag	agtacagaag	ggcgggagct	gacccagggc	ccggcagagt	360
cctcctctct	ctcaggctgt	gggagctggc	agccccggaa	gctgccagtc	ttcaagtccc	420
tccggcacat	gaggcaggta	ggcggcaggg	gcacagcgca	tcaggagctc	aggaggagag	480
ccaatcatgg	gctgtccctg	cccacacgcc	ttgcctctgg	accctccacc	ttcaaaaccc	540
tgcaggaagt	gactgacagc	ctcctcggtg	ggtggctgag	ggcacagggc	gntgggggta	600
t						601

<210> 165

<211> 3337

<212> DNA

<213> Homo sapiens

<400> 165

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atactgtgga	tacttagaga	aattcaaagc	atatatatca	ttggaatttt	ccgaaatccc	180
ttttatccga	aggatgtgca	aactgtgact	gtattctttg	agaagcaaac	taggctcatg	240
aagattggta	ttgtcagacg	gattttgcta	acttttagtat	caccttttgc	catgatagca	300
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aacaactgcc	actttatgta	tactcaacat	tgtcttttct	ccattcgtgt	tggctcatcat	660
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tatgcccagt	tccaaaatga	aggagatgag	ctcgttattt	ccagaagact	ggtaccaatt	1740
tgttctaagg	cagttggaat	gttatcatte	agaagagaag	gcctcaaattg	tactggaaga	1800
aattgccaaag	gacaaagt	taaaagactt	ttatgttcat	acagtaatga	cttgttattt	1860
tagtttattt	ggaatagaca	atatggctcc	tagtcctggg	catatattga	gagtttacgg	1920
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actagcactg	aaagcattca	ggtatactct	gaaactaatg	attgataaag	caagtttagg	2040
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cattggtttg	gtatctgatg	aaaagtggaa	ggaagcaatt	ttacaagaaa	agccatactt	2160
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tctttcatgg	gaattacttt	atgccacaaa	cgatgatgaa	gaacgttata	gtatacaagc	2340
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gatttattct	tcaaaacctc	tccacatata	tttgtattag	agctcatttt	gactgtaattg	2460
tcatacaatg	caatgttttt	attttttcat	cctaaaaaag	taactgtgat	tcttgtaact	2520
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ttctcttagc	catcttaattg	gttctaataaa	acagcaaaaa	catctttatg	tctaagataa	2640
aagaactatt	tggccaatat	ttgtgccctc	tggacttttag	taggctttgg	taaagtgtgag	2700

aaaacttttg	tagaattatc	atataatgaa	ttttgtaatg	ctttcttaaa	tgtgttatag	2760
gtgaattgcc	atacaaagtt	aacagctatg	taatttttac	atacttaaga	gataaacata	2820
tcagtgttct	aagtagtgat	aatggatcct	gttgaagggt	aacataatgt	gtatatatct	2880
gtttgaaata	taatttatag	tattttcaaa	tgtgtgatt	tattttgaca	tctaataatct	2940
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ttttaataaa	atattttcct	tccttttcaa	atatacttct	aatatatgtg	aaaggagcgg	3060
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tgactactaa	agcatatatc	tgactcatta	tgtatcgctt	tcaagtgaat	ttactgcttc	3180
tgaaaaatga	tttaccacac	aggactacca	gttactagt	tcttaaggta	tatgaactaa	3240
agtcagaagg	agatggaaga	aaatttttat	aatacgatct	gaattttatt	ttcattctct	3300
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<210> 166

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (503)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (504)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (508)

<223> n equals a,t,g, or c

<400> 166

gattatatta	gtcttggtc	ttttagaaac	tagtttgctt	catcactttg	ctggcttctc	60
acagatttct	aaaagcaatt	cccaggctat	tgtgggctat	ggtttgatga	tattacttat	120
aatactgtgg	atacttagag	aaattcaaag	catatatatc	attggaattt	tccgaaatcc	180
cttttatccg	aaggatgtgc	aaactgtgac	tgtattcttt	gagaagcaaa	ctaggctcay	240
gaagattggg	attgtcagac	ggattttgct	aacttttagta	tcaccttttg	ccatgatagc	300
atttctttca	ttggacagtt	ccttacaagg	gctccactca	gtgtctgtct	gtattggatt	360
cacaagagcc	tttagaatgg	tatggcagaa	tacagaaaat	gctttattgg	agacagtcac	420
tgtatcaaca	gtacacttga	tctccagtac	agacatatgg	tggaacagaa	gcctggatac	480
agggggaacc	cacttcgtga	acnncgtntc				510

<210> 167

<211> 1367

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1339)

<223> n equals a,t,g, or c

<400> 167

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ctgtcctgcg	cccgcggccc	gctgaggccc	ccggttcgct	gtccgcgcctg	gcgtcccttc	120
gcctcggttg	ctaactttga	gtacatcatc	gcagaaaaaa	gaggggaagaa	taacaccgtg	180
gggttgatcc	aactgaaccg	cccccaaggcc	ctcaatgcac	tttgcgatgg	cctgattgac	240
gagctcaacc	aggccctgaa	gatcttcgag	gaggaccggg	ccgtggggggc	cattgtcctc	300
accggcgggg	ataaggcctt	tgcagctgga	gctgatatca	aggaaatgca	gaacctgagt	360

ttccaggact	gttactccag	caagttcttg	aagcactggg	accacctcac	ccagggtcaag	420
aagccagtca	tcgctgctgt	caatggctat	gcctttggcg	ggggtgtga	gcttgccatg	480
atgtgtgata	tcctctatgc	cgggtgagaag	gcccagtttg	cacagccgga	gatcttaata	540
ggaacccatcc	caggtgcggg	cggcaccag	agactcacc	gtgctgttg	gaagtcgctg	600
gcgattggaga	tggctctcac	cggtgaccgg	atctcagccc	aggacgcaa	gcaagcaggt	660
cttgtcagca	agatttgtcc	tgttgagaca	ctggtggaag	aagccatcca	gtgtgcagaa	720
aaaattgcc	gcaattctaa	aattgtagta	gcgatggcca	aagaatcagt	gaatgcagct	780
tttgaaatga	cattaacaga	aggaagtaag	ttggagaaga	aactctttta	ttcaaccttt	840
gccactgatg	accggaaga	agggatgacc	gcgtttgttg	aaaagagaaa	ggccaacttc	900
aaagaccagt	gagaaccagc	tgcctctgct	tcacacctct	gcttgagag	gacaagtgc	960
gcctgtcagt	tttagaagca	agtaaatcat	cctcttttca	agagcagtg	ccgtgggtgtg	1020
cagttcctct	ccaattgctg	cggtgctgtg	gcccagacct	tcacggcatg	acagccttcg	1080
tcacccagcc	tgtgaggggtc	ctgactggag	caccttctaa	atctaagatt	ctgctgagga	1140
gcccccgctg	gtccctctgg	gcatgctgtg	ctcggacgga	aagcggggcc	tgtgggtcct	1200
tgtgtccctg	ccgctgaaga	atggggctgc	tctgagggaa	acgctgtctc	ttcatacaga	1260
tgctgattaa	agtgatagcg	attcagatta	aaaaaaaaaa	aaaaaaaaag	ggattcgaaa	1320
tccaatttat	ggataacctng	acccaagggg	gggcccgtaa	ccattc		1367

<210> 168  
 <211> 594  
 <212> DNA  
 <213> Homo sapiens

<400> 168						
gggaggaaaa	tggcggtcgc	tggagccgcc	gaccaagagg	cttgggagtc	tgtacctttc	60
ccgaccgggc	cactggaagt	tggagcctcc	gccgagtcgc	agacaacgcc	tccgggaggg	120
ccttcctgat	gcgcttgcc	gctccctgg	ctctctgcat	ggggaaggag	tgttcccagc	180
ttgcaaactc	cagctttgcc	tgtgagagga	acaagcgctc	ctgatccaga	aggtgttcgg	240
atggagatgg	cgagttctgc	tggctcctgg	ctctctggct	gcctcatccc	tctcgtcttc	300
ctccggctgt	ctgtgcatgt	gtcaggccac	gcaggggatg	ccggcaagtt	ccacgtggcc	360
ctactagggg	gcacagccga	gctgctctgc	cctctctccc	tctggcccgg	gacggtagcc	420
aaggakgtga	ggtggctgcg	gtccccattc	ccgcagcgct	cccaggctgt	tcacatatcc	480
cgggatggga	aggaccagga	tgaagatctg	atgccggaat	ataaggggag	gacgggtgcta	540
gtgagagatg	cccaagaggg	aagtgtcact	ctgcagatcc	ttgacgtgcg	cctt	594

<210> 169  
 <211> 684  
 <212> DNA  
 <213> Homo sapiens

<400> 169						
cggacgcgtg	ggtcgccccc	gcgtccgtgt	ttccattagt	gatactgatg	tctcactgtt	60
gttctctccg	agttgacttt	tctgtgcctt	tgtgcatgct	cttatctcct	ctgcttgga	120
tgtccttttc	agcctgtcaa	actccttcaa	aatccagctc	agatgttaca	ttttcttta	180
gcaactcctga	ccccaccccc	caaataagact	tagtccagcc	ttcttctggg	ttcccacagc	240
actcagtaca	gtttgaaagg	tcctttataa	yagtcattat	tacatttttc	aaaaataatt	300
tcataattcat	taacctcatt	agattataag	cacctcaatt	atgtagactg	ttttatcact	360
gctgwccag	cacagcacct	ggcacagtta	gctgttcaag	acatctctgt	tgagtgggta	420
aatgaatgag	ttccactcca	ggttcctgtg	tttgkgacct	ccaggggcct	cttctcttcc	480
cttcccccttc	tcacgtaggc	tgatgccctg	gtcttccagc	tatgcactct	acctgcctct	540
cgawgctcta	agccgatgtg	tccatcattt	ggctgtttgc	atattctgat	tcattgacatt	600
ctcctgcaca	gtgctggctg	acactctgta	gcccattcata	tctgacttct	ctggccagcc	660
tgtatgccta	ccatcagctc	gccc				684

<210> 170  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (345)  
 <223> n equals a,t,g, or c

<400> 170  
 gaattcttcc tggacttgat ccttcccttc aggttccctc tggcccaggg tgtgtctaaa 60  
 aatatcaccg gggagttaga gcctagaatg gggacctcac gactctgcct gatgccttat 120  
 tcaactgtgg ctgagatggt atttatgttg caaaacaaag tcctgtttat cctttcctct 180  
 cctcttctca aggagaagga tggaaatctct tttggagctg ggagccttcc tgcctttgat 240  
 tgggggatgt gtgacacaag cgctccctta gccgcattgg ctggtgtctc actagggtcat 300  
 gtacctcaa gtccactggc tctgagccca gccagcact acaanttgcc taggagttac 360  
 agtccttggt amctagcctg ccttttactg ttatttagga cccagagca ctttagcctg 420  
 tgggtggcag gcttgcagaa actccagttc caacctccag gctgtgtgat tgcctgtcc 480  
 ctggggctgg tctaaatgct ccattcattg gcattggctg agttctgccg ggattggcag 540  
 cactgcgttc cggctttagt tcccacagtt gctgtgctct ttccccgtgt gcagcgcaga 600  
 ttcttctctt gtgccctgtg gttgctacga gcgcattggg gagggctggg gtcagcaatt 660  
 caagactgtc ttttctatcc tcttactgct ctcttccagc aatatgaagg tactgtgatt 720  
 gctcacatga tttttggttc ttatgaagggt gctttttgtg taggtggttg tcagatttgg 780  
 tgttcctgca gggaggacaa tgggtggagg cttctatttg gccatattgc tctgcctccc 840  
 attccagctt gtttctattt ttaatttttg ttgcaatgga gtskyytgcc tggccctgaa 900  
 taatatttta ataaatcaca aggacttgaa actacaaaat gtatacttag agccaaagtc 960  
 accttacttg taagaactgg aaatggggat aatgctctct atggttatgc agcctactct 1020  
 ttactaacc tttctggact agatctttga agtgcgctct agctttcctc ctttctgaa 1080  
 gagagcagag atagtgtgct ttttaactgtg gtcatacatg tatgaggaat aacttttagtg 1140  
 tgagctgttg gttttaaaga gtcataatatt attctatgca cttttgtaag ttcatattat 1200  
 aatgagcaga ttggtcaact gacatttttg attatttcta atacatgtgt tgcttggaa 1260  
 aatactgtta atttccagaa atataagtga accttagctt ttctgttggg ggctttttaa 1320  
 ctttttatga tgggaaaatg tgtgaatttt ctcttgggaa agtatagact ggagacttag 1380  
 ataccagtag atgaattgag gaatttctgt gtagcagttt aatatagaaa agagttagct 1440  
 gtccatgagg aagggtctta agaacaacaa taactaccaa aaaaaaaaaa aaaa 1494

<210> 171  
 <211> 610  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (602)  
 <223> n equals a,t,g, or c

<400> 171  
 gagaggagag actaaggacg ctaggtgggc agggctcttc acttgcagcc tcgaagcgga 60  
 ggatccctgt gtcccagccg ggcatggccg acccccacca gcttttcgat gacacaagtt 120  
 cagcccagag cgggggctat ggggcccagc gggcacctgg tggcctgagt tatcctgcag 180  
 cctctccac gcccatgca gccttcttg ctgaccgggt gtccaacatg gccatggcct 240  
 atgggagcag cctggccgcg cagggaagg agctgggtgga taagaacatc gaccgcttca 300  
 tccccatcac caagctcaag tattactttg ctgtggacac catgtatgtg ggcagaaagc 360  
 tgggcctgct gttcttcccc tacctacacc aggactggga agtgagtag caacaggaca 420  
 ccccggtggc ccccgcttt gacgtcaatg ccccgacact ctacattcca gcaatggcct 480  
 tcatcaccta cgttttggtg gctggcctgc gctggggacc caggataggt tytccccagm 540  
 cctcctgggg ctgcaagcga gctcagccct ggctgctgac cctgaagtgc tggcatctgc 600  
 tnagcttatt 610

<210> 172  
 <211> 654  
 <212> DNA  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (594)  
 <223> n equals a,t,g, or c

<400> 172  
 aaggcattca tttcctccta cgggtggatgc ggacgccggg aggaggagag ccccagagag 60  
 aggagctggg agcggaggcg cagagaacac gtagcgactc cgaagatcag ccccaatgaa 120  
 catgtcagtg ttgactttac aagaatatga attcgaaaag cagttcaacg agaatgaagc 180  
 catccaatgg atgcaggaaa actggaagaa atctttcctg ttttctgctc tgtatgctgc 240  
 ctttatattc ggtggtcggc acctaataa taaacgagca aagtttgaac tgaggaagcc 300  
 attagtgtc tggctctctga cccttgcatg cttcagtata ttcgggtgctc ttcgaactgg 360  
 tgcttatatg gtgtacattt tgatgaccaa aggcctgaag cagtcagttt gtgaccagkg 420  
 tttttacaat ggacctgtca gcaaattctg ggcttatgca tttgtgctaa gcaaagcacc 480  
 cgaactagga gatacaatat tcattattct gaggaagcag aagctgatct tcctgcactg 540  
 gtatcaccac atcactgtgc tcctgtactc ttggtactcc taaaagaca tggnttgccg 600  
 gggagggttg ttcatgacta tgaactatgg cgtgcacgcc gtgatgtact ctta 654

<210> 173  
 <211> 2046  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (96)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (100)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (113)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (122)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (131)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1986)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1993)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (2019)

<223> n equals a,t,g, or c

<400> 173

cctggtattc	aggactgaat	tggaagtctg	agnatcagtg	tggagccata	tctcggctgg	60
caaagccgga	ttgtccgtct	gattatctca	atgtcnagtn	cccacctgct	cgntgtgatc	120
ancactaaca	nggaacaaat	tcaaggacaa	cctgtytttg	agccaggcag	cctcagacac	180
ctgcctgtgg	cccckcctcc	acttctcctg	cccggatgcc	agtgtctccga	gctcagacag	240
aggaagccct	gcagaaagtt	ccatcaggct	gtttccctaaa	ggatgtgtga	acgggagatg	300
atgcactgtg	ttttgaaagt	tgatcatttta	aagcattttta	gcacagttca	tagtccacag	360
ttgatgcagc	atcctgagat	tttaaatcct	gaagtgtggg	tggcgcacac	accaagtagg	420
gagctagtca	ggcagtttgc	ttaaggaaact	tttgtttctct	gtctcttttc	cttaaaattg	480
ggggtaagga	gggaaggaag	agggaaagag	atgactaact	aaaatcattt	ttacagcaaa	540
aactgctcaa	agccatttta	attatattcct	catttttaaaa	gtkacatttg	caaataatttc	600
tccctatgat	aatgtagtcg	atagtgtgca	ctctttctct	ctctctctct	ctctcacaca	660
cacacacaca	cacacacaca	cacacacaca	sacacggcac	cattctgcct	ggggcactgg	720
aacacattcc	tgggggtcac	cgatggtcag	agtcactagr	agttacctga	gtatctctgg	780
gaggcctcat	gtctcctgtg	ggctttttac	caccactgtg	caggagaaca	gacagaggaa	840
atgtgtctcc	ctccaaggcc	ccaaagcctc	agagaarggg	tgtttctggg	tttgccttag	900
caatgcatcg	gtctctgagg	tgacactctg	gagcggttga	agggccacaa	ggtgcagggt	960
taatactctt	gccagttttg	aaatatagat	gctatggttc	agattgtttt	taatagaaaa	1020
ctaaaggggc	aggggaagtg	aaaggaaaaga	tggaggtttt	gtgcggctcg	atggggcatt	1080
tggaacttct	ttttaaagtc	atctcatggt	ctccagtttt	cagttggaac	tctgggtgtt	1140
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gatccaacga	gccctcctat	tttcacagtg	ttctgattgc	tctcacagcc	caggcccatc	1500
gtctgttctc	tgaatgcagc	cctgttctca	acaacagggg	ggatcatggaa	cccctctgtg	1560
gaaccacaaa	ggggagaaat	gggtgataaa	gaatccagtt	cctcaaaacc	ttccctggca	1620
ggctgggtcc	ctctcctgct	gggtgggtgct	ttctcttgca	caccactccc	accacggggg	1680
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tttgggggat	cttggggcta	cagtagtggg	taaacaaatg	cccaccggcc	aagaggccat	1860
taacaaatcg	tccttgctct	gaggggcccc	agcttgctcg	ggcgtggcac	agtggggaaa	1920
tccaagggtc	acagtatggg	rgaraggttg	caccctgcca	ccctgctaac	tttcctccgc	1980
ttaaanacag	tgnttttctc	gccccagggt	taaacctgnt	ttcccaccaa	gcaaaaaaca	2040
agccca						2046

<210> 174

<211> 1439

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (37)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (61)

<223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (73)  
 <223> n equals a,t,g, or c

<400> 174  
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 nctacgacgt tangtttggg gtaaagtgtg ggaatgaaac tgccatgaag gcccctgaat 120  
 taaaggatgt ggggaagtgg gctgcggtcc actgtccggc cttgcaaggc cmccyggagg 180  
 cctgtctgtt agccagtggg ggaggagcaa ggcttcagga agggccagcc acatgccatc 240  
 ttccctgcga tcaggcaaaa aagtgggaatt aaaaagtcaa acctttatat gcatgtgtta 300  
 tgtccatttt gcaggatgaa ctgagtttaa agaattttt ttttctcttc aagttgcttt 360  
 gtctttttcca tctcatcac aagcccttgt ttgagtgtct tatccctgag caatctttcg 420  
 atggatggag atgattcatta ggtacttttg tttcaacctt tattectgta aatatttctg 480  
 tgaaaactag gagaacagag atgagatttg acaaaaaaaaa attgaattaa aaataacaca 540  
 gtcttttttaa aactaacata ggaaagcctt tctcttctta gcttctccat 600  
 tgtctaaatc aggaaaacag gaaaacacag ctttctagca gctgcaaaat ggtttaaatgc 660  
 cccctacata tttccatcac cttgaacaat agcttttagct tgggaatctg agatatgatc 720  
 ccagaaaaca tctgtctcta cttcggctgc aaaacccatg gtttaaatct atatggtttg 780  
 tgcattttct caactaaaaa tagagatgat aatccgaatt ctccatata tcaactaatca 840  
 aagacactat tttcatacta gattcctgag acaataactc actgaagggc ttgtttaaaa 900  
 ataaattgtg ttttggctctg ttcttgtaga taatgccctt ctattttagg tagaagctct 960  
 ggaatccctt tattgtgctg ttgctcttat ctgcaagggtg gcaagcagtt cttttcagca 1020  
 gatcttgccc actattcctc tgagctgaag ttctttgcat agatttggct taagcttgaa 1080  
 ttagatccct gcaaaggctt gctctgtgat gtcagatgta attgtaaatg tcagtaatca 1140  
 cttcatgaac gctaaatgag aatgtaagta tttttaaatg tgtgtatttc aaatttgttt 1200  
 gactaattct ggaattacaa gatttctatg caggatttac cttcatcctg tgcattgtttc 1260  
 ccaaactgtg aggaggggag gctcagagat cgagcttctc ctctgagttc taacaaaatg 1320  
 gtgctttgag ggtcagcctt taggaagggtg cagctttgtt gtcctttgag ctttctgtta 1380  
 tgtgcctatc ctaataaaact cttaaacaca aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1439

<210> 175  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

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cttatcacca	atatcattgg	aattctcacc	atatgtacca	aagatgtatt	agataaagag	600
ttaatatcag	ctttttatca	cacatggaca	cattttattt	atcttctggc	catgctcctg	660
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cggcgattga	tatgttctgc	acatgtgcr	gcttgtctgc	cacgtgtcct	gccctgtwta	780
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ctaagagcaa	aacacatttw	tgctgtagtc	caacagtgcc	ttcacttctt	gatgactctc	900
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agctcctttg	tgtctatact	gcaaattttc	cmaatgggtg	cagttctctt	tggttggtcaa	1380
gttgtggaca	acaccckgtt	caagctacac	atagaggagc	cgtgagcaac	tctctggatg	1440
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<210> 181

<211> 777

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (155)

<223> n equals a,t,g, or c

<400> 181

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caagcacaa	agcagccctt	tattgcctct	tcttatcttt	cataatgttt	gcttcagtcc	120
tgcaataaaa	cccaagatcc	tggtcaatga	aaaangtcac	tactgtgctt	gctgcctgtc	180
tggaagtga	gaatcaaaat	gtcagagga	ttggagcagc	tgcccttttg	gctctgattt	240
acaattatca	gaaggcaaaa	acagctttga	aaagcccatc	agtaaaaaa	agagtggatg	300
aagcactatc	cttagcaaa	aaaactttcc	caaactcaga	agcaaacctt	ctaaatgcct	360
attattttga	atgtcttgaa	aacctcgtgc	agctccttaa	ttcttctctga	gtgccatggg	420
atgctacacc	ttgaagctga	cagtcaccaa	caggggagct	aaagttgaag	ccagctgtgt	480
gtagcagctg	ttacctgaag	acgtgctacc	tctctacaaa	gtgttgatcc	ccttctttcc	540

catgagagag	agaactgggtg	atactccaac	accgtccagt	tgtggcagct	ctccagaagt	600
aatagcagct	gacaactttc	tgtgcctttt	cctttctggt	gaaaaggcat	agaaagttct	660
gggaacataa	acattttttac	ccttttctat	gccattttatt	ttgtaaaaat	cctattttaac	720
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<210> 182  
 <211> 1909  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1902)  
 <223> n equals a,t,g, or c

<400> 182						
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cagctccaaa	agccactgat	gacaagggcc	ccactgtgga	acctaagtct	gggagcccc	180
tgacttctgg	ctggccagag	gctgcggtcc	gtcaagggct	tgctctcgctt	cagaatcagt	240
aacatagatc	ttaagtgcaa	ttgattaata	agcagtgagt	tactgtagct	tccttttagct	300
ctaccgaact	cttttttaaaa	actcaaactt	gagcagcctt	agaaaagggg	ttgggggggtg	360
ggaaccacag	gccattttctc	taagtgggct	gctgtgaagt	tttaaatagaa	agctcttagct	420
ttaggagctt	gagccatttc	ctgactgcac	tggcctggca	gtctggctgc	tgcasaagag	480
tttttaaaga	ggggtcsgag	cccggccgtg	agagcggkct	ttctcaccat	gtggggctgt	540
actacgtggt	ggtcttgggt	tctcttcaca	gaaatgctct	ctcaccaact	tgccccactg	600
tccaactcc	tctcctctta	gagaaaaaac	tgtgattacc	tcaacttgaa	tatgaaactg	660
tgattgaaaa	aagtcaaaac	gtgaagaagc	atcaaagcca	aaaaggcaaa	actggctgag	720
gcctctgttg	atgctcctca	gcctactcgg	gaacgtgaag	gggcagctgg	cgaaaggcca	780
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ggtcagtatc	cacttgattc	ctccaggcgg	cgctccagggt	gggaggagca	gggtcttctg	960
ctgtttccaa	aggaatggcc	atgacactgc	ttttgacctt	agaagtggat	ccaggggacct	1020
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tgctaacttt	cctattagca	gcttcagttt	atatcaccca	gagtgcgtgg	gataatgttg	1140
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gaagaaggag	acagaaattg	gaggaaatgg	gattattatc	ctagggaagg	gccgttggca	1260
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gcccttcagg	tcgcaagaaa	aagttccctc	ctaaattcta	ttaggatttt	ggagaatttt	1380
tgcacagtaa	gaagctctgg	gttgctcctt	gggcttctca	aaagggaaaa	gttcaattca	1440
aagattgtaa	actacgaagt	attccagccg	tggtgctgat	ctagttggat	agttgtacct	1500
caaaaaagta	ggtgagaact	ggcttcctca	ttgtcccagg	atgtcaaata	ctaatagacat	1560
aagagctcac	ttacgtgccca	aaattcactt	ttatactagt	ttttcagtgc	tttaatatatt	1620
gtaacttaaa	ttttaaaact	cgtattttaca	aacactactg	taacttcagt	gaaactgaat	1680
tgtgcgattg	aagctttttg	cttatcatag	tattttattac	actacttaat	tcagtaaata	1740
tataaaaagta	gccttcaatt	tattttttata	ttatttttaca	tgtttttacc	tgagttgtg	1800
tatgtgaatt	taccttggtg	atcgagatgt	catgctaagg	accaataaac	tatcactgaa	1860
caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		1909

<210> 183  
 <211> 773  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (62)  
 <223> n equals a,t,g, or c

<400> 183  
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 tnccttcatt ccccatatgc aaattagcag caatcccaca attctaaaat acatcctgaa 120  
 atcggaaccc tctatcacta ctattaaatc cacaatttaa atcaccatca tctcttatct 180  
 ggattctttc agttacctcc tgattaattc cctgcttctt gtgttgcttt ccacagatca 240  
 ctgcctgcat agcaaacaga atgatttcct aaaaaaaaaa aattgagact gtattgttcc 300  
 cttgcttaaa gccctccaac agcttcccat tgcaataaaa ataaatgtca ccttcttatt 360  
 tggcctataa ggcctgacgt ggtttggctc ctgcctctgt aaactcatca tctacccctt 420  
 gtccccaggt tctcatgctc cagccacagt ggctaccttc ctgtcccgcg aatgtaccca 480  
 gtatatacta cctcagactt ttgctctgga acattcgttc tcatttttgc atggctaacc 540  
 ctttctgaat tagtcagggt tctccataga aagataatca attgggtttt tatattttta 600  
 aggagatttt attatggaga attagcatat gcaaatatgg agaccacaat gtgccatcta 660  
 caagctggag acccaagaca gctgggtgtg taattcartc tgagtccgaa ggctgagagc 720  
 cagaggaact gatggtgtga atcccagctc gaaggcaagg gaagatgaaa tga 773

<210> 184  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<400> 184  
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 cctcctccag ttgagtctct ccagaagccc ccgattcaac aaggggttac aaagagccat 120  
 ggagaagaca atgaagggtt ctacaattaa gattttgctc tattttttcc atcatatcta 180  
 tgcattctct cataccttta ttctcttacc caatccatct atttttttat gcatttcaaa 240  
 gtacattgca gacattagta catgacacct ctaatcagtt ttatgttctt ttccttttta 300  
 ctttatacga aataaaaaatc acagttaaca attatcaagt gcttactgtc aggcactgtg 360  
 ccaagcactt tccttgcat acataatttg aatctcatgg taaccctata agtacagtta 420  
 ccaccttcat tttaaaaatg agaagaactg aaacagagaa caatgggtgtc aattaacatt 480  
 ttaaaagtct ttctatgggc cattcacagt gcaagtactt ttcatgcatt awctcagtta 540  
 atcccttata gcaatttcat aaaggcaata ctattacmga tgcaaaaattg agactttkag 600  
 aaaaagatct tgga 614

<210> 185  
 <211> 437  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
 ctagtcttag atcgcgagcg ccgccctttt tttttttttt tttttttttt tttttttttt 60  
 ttacmtcttt gkcaaagggg aaaaaagcat atatgaaatt aaaaatagta tcaaagaatt 120  
 caactacaaa gggcttaaca aacttcgtaa attggagata tataggacat tgtacctaac 180  
 ctaatagaaa cttaaacatt ttttagttat gkatgkcgat ttttaaccat gttccataga 240  
 ggaatgttaa caatgtctaa aaaatcagkg tcatacaaaa tacgttattt cagccaggca 300  
 tggcagctca tgccggtaat cctagtgtct tgggaggctg aggcaggagg atcacttgaa 360  
 gccaggcaag accatatagk gagactygtg ctctgcaaaa aaaaaaaaag ggcggcscsc 420  
 cttttttttt ttttttta 437

<210> 186  
 <211> 587  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (534)

<223> n equals a,t,g, or c

<400> 186

gacatccatt	gaagctgcaa	caccaccccc	cgccacttca	cctccttcct	gacatgctct	60
gctcctcctt	tctccccctc	agcactgctg	ccatctgggc	tgcattattc	tcgggtatgg	120
gggctgtccg	acattcccca	tcagaaggaa	aaagatccct	gaaaagtagc	aggtgcttac	180
atttctggcc	tctaccaccc	ggctgcagta	gtccccacc	accctgcaat	gtgacaacca	240
aaaatgtctc	tagatgttgc	cagaagtcct	ctagagatgg	gagggtacga	ctgccacccc	300
gctgagaatt	cctgctgtca	ctggagtggg	ggctgttttc	tctcccatgc	ctctggtacc	360
ttgggggtcc	cccctgctcc	caagggctgc	ttccaccacc	ctgtccatcc	atcccgattg	420
gtccccagga	ggtttttagct	ccgggcttcc	tgtctccac	accactcctc	acagttctcc	480
atgatttcaa	catccaggtg	ggcgacgcag	cctctcggtt	ccttgaccct	ctgngtgatc	540
ctgctgcttc	taccgggcca	accagtactc	ctaggagccc	tcacaat		587

<210> 187

<211> 1706

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1424)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1665)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1688)

<223> n equals a,t,g, or c

<400> 187

ggcttcctcg	ggtactcggc	cactcggggc	atcgcgggcg	cctttctagc	cgctgtccca	60
agggttggtc	tcgcgctttc	ggctgcgagc	tctctgtggt	gctggcagcg	acatgtggcg	120
cctcccggga	ctcctggggc	gagctcttcc	ccgtacactg	ggacctagcc	tctggagggt	180
gactcctaag	tccaccagcc	cagatggggc	tcagactacc	tcctccactt	tgctgggttc	240
tgtgcctaac	ctcgacaggt	caggtcccca	tggcccaggc	acgagcgggg	gtccaaggtc	300
ccatggatgg	aaggatgcct	tccaatggat	gtcttcccgt	gtctccccga	acaccctatg	360
ggatgccata	tcttggggca	ctctggccgt	gctggccctg	cagctggcaa	ggcagatcca	420
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cctggaccgt	ttcttctcat	ctcccttggt	gcacccatgc	tcctcactgc	gacaacacat	540
cctcccagc	cccgatggcc	cagctcccag	gcacactggc	ctcagggaac	ccaggcttgg	600
ccaggaagaa	gcctcagctc	agccccggaa	cttctcacac	aactccttga	gaggagctcg	660
tcctcaggac	ccctctgagg	aaggctcccg	tgattttggc	ttcctgcatg	ccagtagtag	720
catcgagtcc	gaggcaaaac	cagcccagcc	tcagcccact	ggtgaaaagg	aacaagataa	780
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agcaggaacc	tcacgcctac	cacatgcctc	gagcacaggc	aaccttgcc	tcctctgcag	1560
aagtgggcat	ytcgagcca	gcctggaagc	ctccagcagg	gctattcccc	cacamccyta	1620
cccaytgaa	aggagtgtk	taagaytagg	ttttggytaa	ggaantcca	gcgggggttt	1680
caagtttnc	caaggcaatt	ttcaag				1706

<210> 188  
 <211> 1150  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (407)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (413)  
 <223> n equals a,t,g, or c

<400> 188						
ggtcgaccca	cgcgtccgca	ctcagacacc	gtgtcctctt	gcctgggaga	ggggaagcag	60
atctgaggac	atctctgtgc	caggccagaa	accgcccacc	tgcagttcct	tctccgggat	120
ggacgtgggg	cccagctccc	tgccccacct	tgggtgaag	ctgctgctgc	tcctgctgct	180
gctgcccctc	aggggccaag	ccaacacagg	ctgctacggg	atcccaggga	tgcccggcct	240
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aatcccagcc	attcccggga	tccgaggacc	caaagggcag	aagggagaac	ccggcttacc	360
cggccatcct	gggaaaaatg	gccccatggg	accccctggg	atgccanggg	tgncgggcc	420
catgggcakm	cctggaragc	cagaaattcc	agtcagtgtt	cacggtcact	cggcagaccc	480
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tgaggttgca	ggtgggagag	gaggtgtggc	tggctgtcaa	tgactactac	gacatggtgg	780
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actggccagt	ctgcatecct	gcctagacca	ttctcccctc	caggagagccc	accctgaccc	960
acccccactg	cacccctcc	ccatgggttc	tctccttcc	ctgaacttct	ttaggagtca	1020
ctgcttgtgt	ggttcctggg	acacttaacc	aatgccttct	ggtactgcca	ttcttttttt	1080
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aaaaaaaaag						1150

<210> 189  
 <211> 1233  
 <212> DNA  
 <213> Homo sapiens

<400> 189						
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ccagctccct	gccccacctt	gggctgaagc	tgtgctgctg	cctgctgctg	ctgcccctca	180
ggggccaagc	caacacaggc	tgctacggga	tcccagggat	gcccggcctg	cccggggcac	240
cagggaagga	tgggtacgac	ggactgccgg	ggcccaaggg	ggagccagga	atcccagcca	300
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ggaaaaatgg	ccccatggga	cccectggga	tgccaggggt	gcccggcccc	atgggcatcc	420
ctggagagcc	aggtgaggag	ggcagataca	agcagaaatt	ccagtcagtg	ttcacggtca	480
ctcggcagac	ccaccagccc	cctgcaccca	acagcctgat	cagattcaac	gcggtcctca	540
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tctactactt	tgtctaccac	gcgtcgcata	cagccaacct	gtgcgtgctg	ctgtaccgca	660
gcggcgtcaa	agtggtcacc	ttctgtggcc	acacgtccaa	aaccaatcag	gtcaactcgg	720

gcggtgtgct	gctgaggttg	caggtgggcg	aggaggtgtg	gctggctgtc	aatgactact	780
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tggacccacc	ttactggcca	gtctgcatcc	ttgcctagac	cattctcccc	accagatgga	960
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atgccttctg	gtactgccat	tctttttttt	ttttttttca	agtattggaa	ggggtgggga	1140
gatatataaa	taaatcatga	aatcaataca	waaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaaaaaaa	aaaaagggcg	gcc			1233

<210> 190

<211> 633

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (1)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (3)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (7)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (11)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (596)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (597)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (599)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (600)

<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (601)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (602)  
<223> n equals a,t,g, or c

<220>  
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<222> (603)  
<223> n equals a,t,g, or c

<220>  
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<220>  
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<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (606)  
<223> n equals a,t,g, or c

<220>  
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ttgtggcatg agagcgcgct tgtgcgatgg ccccgctgtg gtccctctc tgtccctcca      300
tctgtatgtg ttctgtgtcc cttgcatgtg tgcgtgttag agtgagcgcg tatgcatcaa      360
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ggaaccaaga cttcctgagt cccctcacc ctggccctgt tccaccatgg ttatctgggt      480
attggggaat ggaaactttg ggggagtgac tttttaaga gacacttata atttctacta      540
ctgcactact gtccattgtg gggatgataa acatgggtatt taactgtgca aaaaannnnn      600
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<210> 191

<211> 705

<212> DNA

<213> Homo sapiens

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<400> 191
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gacggaggag aaccgatcat actggaacag cacaggcttc ttggcctggg tatataatga      660
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<210> 192

<211> 2901

<212> DNA

<213> Homo sapiens

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<400> 192
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<210> 193

<211> 611

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (598)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (611)

<223> n equals a,t,g, or c

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gtattttacac	aaggaaggcc	tttgtatttt	taaaatttct	actgtagcta	taattgggttc	180
ccattgktat	ttctaatact	ataaatttgt	gcattctttt	tctttatcca	cttttatgga	240
agatgggtgtg	ttttaataac	ttttttttta	cttagctttt	gattttggat	atttttgetca	300
ttgattacca	gtgatttttt	cttttcttac	aggagctttt	aagtccacag	tttccctgtg	360
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ggsttamcaa	agcctgrctt	tcaagggttaa	gctatcctcc	cccttaccct	cccagganct	600
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<210> 194

<211> 3111

<212> DNA

<213> Homo sapiens

<400> 194

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<210> 195

<211> 490

<212> DNA

<213> Homo sapiens

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<210> 196
<211> 1527
<212> DNA
<213> Homo sapiens

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<210> 197
<211> 3746
<212> DNA
<213> Homo sapiens

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ctcccgcggc gcggggctgc tgctgctgct gggccagggt gccgacgggc tgtgcacacc      180
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cgtggtggcc aacatcaccg tctacggcgc cgctggctc ctgctgcacc tgcagggctc      540
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gcgtcactgc	attacatgag	aaacaaggct	ggtctgtcct	gggagctccc	ccacccccta	3420
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<210> 198

<211> 91

<212> PRT

<213> Homo sapiens

<400> 198

Met Val Leu Arg Gly Trp Gly Leu Ala Trp Ser Leu Ser Pro Val Val  
 1 5 10 15  
 Cys Gly Tyr Ser Gly Asp Met Lys Gly Val Cys Trp Gly Arg Ser Asp  
 20 25 30  
 His Ser Leu Leu Pro Ser Glu Ile Leu Leu Pro Pro Ala Pro Cys Pro  
 35 40 45  
 Ser Ser Ala Val Leu His Asn Pro Pro Pro Thr Pro His Leu Pro Ser  
 50 55 60  
 Pro Val Leu Val Arg Ile Gln Glu Ala Pro Thr Trp Ala Gln Arg Ser  
 65 70 75 80  
 Ser Leu Gly Ala Ser Pro Leu His Lys Gly Asp  
 85 90

<210> 199  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 199  
 Met Ser Cys Thr Leu Leu Ile Cys Thr Val Val Leu Gly Val Thr Thr  
 1 5 10 15  
 Pro Ala Ile Gly Pro Ala Ala Pro Ser Leu Leu Ala Thr Pro Pro Gln  
 20 25 30  
 Ala Ala Ala Ala Thr Met Gln Pro Arg Leu Gly Arg Ala Ala Gly Ala  
 35 40 45  
 Ala

<210> 200  
 <211> 95  
 <212> PRT  
 <213> Homo sapiens

<400> 200  
 Met Val Pro Cys Arg Lys Thr Leu Leu Phe Leu Trp Val Gly Ser Leu  
 1 5 10 15  
 Cys Arg Asp Val Gly Ser Trp Ser Gly Trp Pro Phe Gly Leu Ser Thr  
 20 25 30  
 Ala Thr Gln Pro Arg Leu Arg Leu Gly Lys Gln Thr Gly Ala Gly Gln  
 35 40 45  
 Ala Arg Arg Ala Cys Arg Thr Val Ile Leu Arg Cys Gly Ser Cys Cys  
 50 55 60  
 Arg Gly Arg Arg Thr Gly Ser Val Val Ala Trp Ser Ser Leu Pro Gln  
 65 70 75 80

Arg Thr Ser Ala Ala Glu Leu Arg Trp Arg Pro Trp Gly Pro Val  
85 90 95

<210> 201  
<211> 175  
<212> PRT  
<213> Homo sapiens

<400> 201  
Met Ala Thr Pro Ser Gly Leu Gly Ala Leu Leu Leu Leu Leu Leu  
1 5 10 15  
Pro Thr Ser Gly Gln Glu Lys Pro Thr Glu Gly Pro Arg Asn Thr Cys  
20 25 30  
Leu Gly Ser Asn Asn Met Tyr Asp Ile Phe Asn Leu Asn Asp Lys Ala  
35 40 45  
Leu Cys Phe Thr Lys Cys Arg Gln Ser Gly Ser Asp Ser Cys Asn Val  
50 55 60  
Glu Asn Leu Gln Arg Tyr Trp Leu Asn Tyr Glu Ala His Leu Met Lys  
65 70 75 80  
Glu Gly Leu Thr Gln Lys Val Asn Thr Pro Phe Leu Lys Ala Leu Val  
85 90 95  
Gln Asn Leu Ser Thr Asn Thr Ala Glu Asp Phe Tyr Phe Ser Leu Glu  
100 105 110  
Pro Ser Gln Val Pro Arg Gln Val Met Lys Asp Glu Asp Lys Pro Pro  
115 120 125  
Asp Arg Val Arg Leu Pro Lys Ser Leu Phe Arg Ser Leu Pro Gly Asn  
130 135 140  
Arg Ser Val Val Arg Leu Ala Val Thr Ile Leu Asp Ile Gly Pro Gly  
145 150 155 160  
Thr Leu Phe Lys Val Arg Thr Gln Gly Ser Ser Lys Val Lys Cys  
165 170 175

<210> 202  
<211> 126  
<212> PRT  
<213> Homo sapiens

<400> 202  
Met Ala Ala Phe Ala Thr Ala His Leu Leu Tyr Val Trp Ala Phe Gly  
1 5 10 15  
Phe Ser Pro Leu Gln Pro Gly Leu Leu Leu Leu Ile Ile Leu Ala Pro  
20 25 30  
Gly Pro Tyr Leu Ser Leu Val Leu Gln His Leu Glu Pro Asp Met Val

35	40	45
Leu Pro Val Ala Ala Tyr Gly Leu Ile Leu Met Ala Met Leu Trp Arg		
50	55	60
Gly Leu Ala Gln Gly Gly Ser Ala Gly Trp Gly Ala Leu Leu Phe Thr		
65	70	75
Leu Ser Asp Gly Val Leu Ala Trp Asp Thr Phe Ala Gln Pro Leu Pro		
85	90	95
His Ala His Leu Val Ile Met Thr Thr Tyr Tyr Ala Ala Gln Leu Leu		
100	105	110
Ile Thr Leu Ser Ala Leu Arg Ser Pro Val Pro Lys Thr Asp		
115	120	125

<210> 203  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 203  
 Met Trp Cys Ala Ser Pro Val Ala Val Val Ala Phe Cys Ala Gly Leu  
 1 5 10 15

Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg  
 20 25 30

Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr  
 35 40 45

Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu  
 50 55 60

Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg  
 65 70 75 80

Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu  
 85 90 95

Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile  
 100 105 110

Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys Tyr  
 115 120 125

Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg Val  
 130 135 140

Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg Ala  
 145 150 155 160

Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala Pro  
 165 170 175

Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu  
 180 185

<210> 204  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Met Thr Trp Gly Thr Lys Ala Thr Trp Tyr Leu Ala Ser Ser Ser Ser  
   1                  5                  10                  15  
 Cys Gly Ser Tyr Cys Pro Pro Pro Cys Trp Trp Ala Ser Ser Gly Cys  
                   20                  25                  30  
 Thr Gly Pro His Arg Thr  
           35

<210> 205  
 <211> 163  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Met Gly Gly Met Ile Ile Val Leu Leu Ile Cys Ile Val Trp Phe Pro  
   1                  5                  10                  15  
 Leu Leu Phe Met Ser Leu Ile Lys Ser Val Ala Gly Val Ile Asn Gln  
                   20                  25                  30  
 Pro Leu Asp Val Ser Val Thr Ile Thr Leu Gly Gly Tyr Gln Pro Ile  
           35                  40                  45  
 Phe Thr Met Ser Ala Gln Gln Ser Gln Leu Lys Ile Met Asp Gln Gln  
   50                  55                  60  
 Ser Phe Asn Lys Phe Ile Gln Ala Phe Ser Arg Asp Thr Gly Ala Met  
   65                  70                  75                  80  
 Gln Phe Leu Glu Asn Tyr Glu Lys Glu Asp Ile Thr Val Ala Glu Leu  
                   85                  90                  95  
 Glu Gly Asn Ser Asn Ser Leu Trp Thr Ile Ser Pro Pro Ser Lys Gln  
           100                  105                  110  
 Lys Met Ile His Glu Leu Leu Asp Pro Asn Ser Ser Phe Ser Val Val  
   115                  120                  125  
 Phe Ser Trp Ser Ile Gln Arg Asn Leu Ser Leu Gly Ala Lys Ser Glu  
   130                  135                  140  
 Ile Ala Thr Asp Lys Leu Ser Phe Pro Leu Lys Asn Ile Asn Ser Lys  
   145                  150                  155                  160  
 Glu Tyr Arg

<210> 206  
 <211> 369  
 <212> PRT  
 <213> Homo sapiens

<400> 206  
 Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe  
           1                  5                  10                  15  
 Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala  
                   20                  25                  30  
 Leu Leu Leu Val Leu Ile Phe Leu Phe Val Val Ser Tyr Trp Leu Phe  
           35                  40                  45  
 Tyr Gly Val Arg Ile Leu Asp Ser Arg Asp Arg Asn Tyr Gln Gly Ile  
           50                  55                  60  
 Val Gln Tyr Ala Val Ser Leu Val Asp Ala Leu Leu Phe Ile His Tyr  
           65                  70                  75                  80  
 Leu Ala Ile Val Leu Leu Glu Leu Arg Gln Leu Gln Pro Met Phe Thr  
                   85                  90                  95  
 Leu Gln Val Val Arg Ser Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu  
           100                  105                  110  
 Gly His Leu Ser Ile Gln Arg Ala Ala Leu Val Val Leu Glu Asn Tyr  
           115                  120                  125  
 Tyr Lys Asp Phe Thr Ile Tyr Asn Pro Asn Leu Leu Thr Ala Ser Lys  
           130                  135                  140  
 Phe Arg Ala Ala Lys His Met Ala Gly Leu Lys Val Tyr Asn Val Asp  
           145                  150                  155                  160  
 Gly Pro Ser Asn Asn Ala Thr Gly Gln Ser Arg Ala Met Ile Ala Ala  
                   165                  170                  175  
 Ala Ala Arg Arg Arg Asp Ser Ser His Asn Glu Leu Tyr Tyr Glu Glu  
           180                  185                  190  
 Ala Glu His Glu Arg Arg Val Lys Lys Arg Lys Ala Arg Leu Val Val  
           195                  200                  205  
 Ala Val Glu Glu Ala Phe Ile His Ile Gln Arg Leu Gln Ala Glu Glu  
           210                  215                  220  
 Gln Gln Lys Ala Pro Gly Glu Val Met Asp Pro Arg Glu Ala Ala Gln  
           225                  230                  235                  240  
 Ala Ile Phe Pro Ser Met Ala Arg Ala Leu Gln Lys Tyr Leu Arg Ile  
                   245                  250                  255  
 Thr Arg Gln Gln Asn Tyr His Ser Met Glu Ser Ile Leu Gln His Leu  
           260                  265                  270  
 Ala Phe Cys Ile Thr Asn Gly Met Thr Pro Lys Ala Phe Leu Glu Arg  
           275                  280                  285

Tyr Leu Ser Ala Gly Pro Thr Leu Gln Tyr Asp Lys Asp Arg Trp Leu  
 290 295 300

Ser Thr Gln Trp Arg Leu Val Ser Asp Glu Ala Val Thr Asn Gly Leu  
 305 310 315 320

Arg Asp Gly Ile Val Phe Val Leu Lys Cys Leu Asp Phe Ser Leu Val  
 325 330 335

Val Asn Val Lys Lys Ile Pro Phe Ile Ile Leu Ser Glu Glu Phe Ile  
 340 345 350

Asp Pro Lys Ser His Lys Phe Val Leu Arg Leu Gln Ser Glu Thr Ser  
 355 360 365

Val

<210> 207  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Met Asp Thr Tyr Phe Ile Leu Trp Ala Ile Pro Val Thr Ile Ile Ile  
 1 5 10 15

Cys Phe Ser Trp Leu Glu Tyr Ser Gln Thr Trp Ala Leu Gly Ala Ser  
 20 25 30

Cys Ser Leu Pro Gln Cys Pro Phe Asp Val Met Leu Ser Leu Phe Leu  
 35 40 45

Val His Pro Tyr Phe Pro Thr Val Trp Asp His Leu Cys Phe Pro His  
 50 55 60

Pro Ser Pro Glu Ser Ser Pro Phe Ser Lys Cys Ser Leu Val Ala Trp  
 65 70 75 80

Leu Glu Asn Gly Ala  
 85

<210> 208  
 <211> 172  
 <212> PRT  
 <213> Homo sapiens

<400> 208  
 Met His Gly Ala Arg Leu Phe Val Cys Leu Phe Val Cys Phe Arg Gln  
 1 5 10 15

Ser Cys Tyr Val Ala Gln Ala Gly Val Gln Trp His Asn His Ser Ser  
 20 25 30

Leu Gln Pro Leu Ser Pro Gly Phe Lys Arg Phe Phe Cys Leu Asn Leu

35					40					45					
Pro	Ser	Ser	Trp	Asp	Tyr	Arg	His	Met	Ala	Thr	Cys	Pro	Trp	Leu	Ile
	50					55					60				
Phe	Val	Phe	Leu	Val	Glu	Met	Glu	Phe	Arg	His	Val	Gly	Gln	Ala	Gly
65					70					75					80
Leu	Gly	Leu	Leu	Thr	Ser	Ser	Asp	Leu	Pro	Ala	Leu	Ala	Phe	Gln	Ser
				85					90					95	
Ala	Gly	Ile	Thr	Gly	Leu	Ser	His	His	Ala	Trp	Pro	Gly	Arg	Phe	Leu
			100					105					110		
Lys	Lys	Val	Ile	Glu	Ile	Cys	Ser	Cys	Pro	Val	Pro	Arg	Gly	Ser	His
		115					120					125			
Ala	Gly	Leu	Phe	Ser	Ala	Pro	Gly	Leu	Pro	Cys	Glu	Ser	Gly	Gly	Ala
	130					135					140				
Ala	Val	Leu	Leu	Gln	Glu	Gly	Gln	Thr	Pro	Val	Gln	Glu	Ala	Arg	Thr
145					150					155					160
His	His	Gln	Leu	Val	Gly	Gly	Gln	Gly	Arg	Leu	Cys				
			165						170						

<210> 209

<211> 829

<212> PRT

<213> Homo sapiens

<400> 209

Met	Ala	Pro	Ala	Gly	Cys	Cys	Cys	Cys	Cys	Cys	Phe	Trp	Gly	Gly	Ala
1				5						10				15	
Val	Ala	Ala	Ala	Gly	Ala	Ala	Arg	Arg	Val	Leu	Leu	Leu	Leu	Leu	Leu
			20					25					30		
Gly	Val	Leu	Ser	Ala	Arg	Leu	Arg	Pro	Gly	Ala	Leu	Ala	Thr	Glu	His
		35					40					45			
Tyr	Ser	Pro	Leu	Ala	Leu	Leu	Lys	Gln	Glu	Leu	Gln	His	Arg	Gln	Gln
	50					55					60				
Gln	Glu	Ala	Pro	Ala	Gly	Gly	Gly	Gly	Cys	Ser	Pro	Gln	Ser	Gly	Asp
65					70					75					80
Trp	Gly	Asp	Gln	Tyr	Ser	Ala	Glu	Cys	Gly	Glu	Ser	Ser	Phe	Leu	Asn
				85					90					95	
Phe	His	Asp	Ser	Asp	Cys	Glu	Pro	Lys	Gly	Ser	Ser	Pro	Cys	Asp	Ser
			100					105					110		
Leu	Leu	Ser	Leu	Asn	Thr	Glu	Lys	Ile	Leu	Ser	Gln	Ala	Lys	Ser	Ile
		115					120					125			
Ala	Glu	Gln	Lys	Arg	Phe	Pro	Phe	Ala	Thr	Asp	Asn	Asp	Ser	Thr	Asn
	130						135					140			



Glu Glu Leu Ala Ile Ala Tyr Val Leu Ile Gly Ser Gly Leu Tyr Asp  
 145 150 155 160  
 Glu Ala Ile Arg His Phe Ser Thr Met Leu Gln Glu Glu Pro Asp Leu  
 165 170 175  
 Val Ser Ala Ile Tyr Gly Arg Gly Ile Ala Tyr Gly Lys Lys Gly Leu  
 180 185 190  
 His Ile Leu Ser Pro Leu Gly Arg Ile Asn Glu Ala Val Asn Asp Leu  
 195 200 205  
 Thr Lys Ala Ile Gln Leu Gln Pro Ser Ala Arg Leu Tyr Arg His Arg  
 210 215 220  
 Gly Thr Leu Tyr Phe Ile Ser Glu Asp Tyr Ala Thr Ala His Glu Asp  
 225 230 235 240  
 Phe Gln Gln Ser Leu Glu Leu Asn Lys Asn Gln Pro Ile Ala Met Leu  
 245 250 255  
 Tyr Lys Gly Leu Thr Phe Phe His Arg Gly Leu Leu Lys Glu Ala Ile  
 260 265 270  
 Glu Ser Phe Lys Glu Ala Leu Lys Gln Lys Val Asp Phe Ile Asp Ala  
 275 280 285  
 Tyr Lys Ser Leu Gly Gln Ala Tyr Arg Glu Leu Gly Asn Phe Glu Ala  
 290 295 300  
 Ala Thr Glu Ser Phe Gln Lys Ala Leu Leu Leu Asn Gln Asn His Val  
 305 310 315 320  
 Gln Thr Leu Gln Leu Arg Gly Met Met Leu Tyr His His Gly Ser Leu  
 325 330 335  
 Gln Glu Ala Leu Lys Asn Phe Lys Arg Cys Leu Gln Leu Glu Pro Tyr  
 340 345 350  
 Asn Glu Val Cys Gln Tyr Met Lys Gly Leu Ser His Val Ala Met Gly  
 355 360 365  
 Gln Phe Tyr Glu Gly Ile Lys Ala Gln Thr Lys Val Met Leu Asn Asp  
 370 375 380  
 Pro Leu Pro Gly Gln Lys Ala Ser Pro Glu Tyr Leu Lys Val Lys Tyr  
 385 390 395 400  
 Leu Arg Glu Tyr Ser Arg Tyr Leu His Ala His Leu Asp Thr Pro Leu  
 405 410 415  
 Thr Glu Tyr Asn Ile Asp Val Asp Leu Pro Gly Ser Phe Lys Asp His  
 420 425 430  
 Trp Ala Lys Asn Leu Pro Phe Leu Ile Glu Asp Tyr Glu Glu Gln Pro  
 435 440 445  
 Gly Leu Gln Pro His Ile Lys Asp Val Leu His Gln Asn Phe Glu Ser  
 450 455 460

Tyr Lys Pro Glu Val Gln Glu Leu Ile Cys Val Ala Asp Arg Leu Gly  
 465 470 475 480  
 Ser Leu Met Gln Tyr Glu Thr Pro Gly Phe Leu Pro Asn Lys Arg Ile  
 485 490 495  
 His Arg Ala Met Gly Leu Ala Ala Leu Glu Val Met Gln Ala Val Gln  
 500 505 510  
 Arg Thr Trp Thr Asn Ser Lys Val Arg Met Asn Gly Lys Thr Arg Leu  
 515 520 525  
 Met Gln Trp Arg Asp Met Phe Asp Ile Ala Val Lys Trp Arg Arg Ile  
 530 535 540  
 Ala Asp Pro Asp Gln Pro Val Leu Trp Leu Asp Gln Met Pro Ala Arg  
 545 550 555 560  
 Ser Leu Ser Arg Gly Phe Asn Asn His Ile Asn Leu Ile Arg Gly Gln  
 565 570 575  
 Val Ile Asn Met Arg Tyr Leu Glu Tyr Phe Glu Lys Ile Leu His Phe  
 580 585 590  
 Ile Lys Asp Arg Ile Leu Val Tyr His Gly Ala Asn Asn Pro Lys Gly  
 595 600 605  
 Leu Leu Glu Val Arg Glu Ala Leu Glu Lys Val His Lys Val Glu Asp  
 610 615 620  
 Leu Leu Pro Ile Met Lys Gln Phe Asn Thr Lys Thr Lys Asp Gly Phe  
 625 630 635 640  
 Thr Val Asn Thr Lys Val Pro Ser Leu Lys Asp Gln Gly Lys Glu Tyr  
 645 650 655  
 Asp Gly Phe Thr Ile Thr Ile Thr Gly Asp Lys Val Gly Asn Ile Leu  
 660 665 670  
 Phe Ser Val Glu Thr Gln Thr Thr Glu Glu Arg Thr Gln Leu Tyr His  
 675 680 685  
 Ala Glu Ile Asp Ala Leu Tyr Lys Asp Leu Thr Ala Lys Gly Lys Val  
 690 695 700  
 Leu Ile Leu Ser Ser Glu Phe Gly Glu Ala Asp Ala Val Cys Asn Leu  
 705 710 715 720  
 Ile Leu Ser Leu Val Tyr Tyr Phe Tyr Asn Leu Met Pro Leu Ser Arg  
 725 730 735  
 Gly Ser Ser Val Ile Ala Tyr Ser Val Ile Val Gly Ala Leu Met Ala  
 740 745 750  
 Ser Gly Lys Glu Val Ala Gly Lys Ile Pro Lys Gly Lys Leu Val Asp  
 755 760 765  
 Phe Glu Ala Met Thr Ala Pro Gly Ser Glu Ala Phe Ser Lys Val Ala  
 770 775 780

Lys Ser Trp Met Asn Leu Lys Ser Ile Ser Pro Ser Tyr Lys Thr Leu  
 785 790 795 800

Pro Ser Val Ser Glu Thr Phe Pro Thr Leu Arg Ser Met Ile Glu Val  
 805 810 815

Leu Asn Thr Asp Ser Ser Pro Arg Cys Leu Lys Lys Leu  
 820 825

<210> 210  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 210  
 Met Thr Ser Gln Asn Leu Trp Val Ile Val Val Ile Ala Asn Ser Ile  
 1 5 10 15  
 Leu Val Ile Val Ala Gln Tyr Arg Asp Glu Gly Asn Arg Phe Cys Asn  
 20 25 30  
 Gln Met Ile Leu Gly Ser Glu Ser Thr Leu Pro Leu Thr Ser Tyr Met  
 35 40 45  
 Thr Ser Ser Asn Phe His His Leu Ser Met Leu Gln Phe Pro His Arg  
 50 55 60  
 Gln Asp Gly Cys Gly Gly Arg Gly Thr Thr Val Gln Ile His His Pro  
 65 70 75 80  
 Lys Phe Lys Met Leu Gln Asn Leu Gly Arg Ala Trp Trp Leu Ile Pro  
 85 90 95  
 Val Ile Pro Ala Leu Trp Glu Val Lys Val Asp Gly  
 100 105

<210> 211  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens

<400> 211  
 Met Met Trp Leu Leu Leu Thr Thr Thr Cys Leu Ile Cys Gly Thr Leu  
 1 5 10 15  
 Asn Ala Gly Gly Phe Leu Asp Leu Glu Asn Glu Val Asn Pro Glu Val  
 20 25 30  
 Trp Met Asn Thr Ser Glu Ile Ile Ile Tyr Asn Gly Tyr Pro Ser Glu  
 35 40 45  
 Glu Tyr Glu Val Thr Thr Glu Asp Gly Tyr Ile Leu Leu Val Asn Arg  
 50 55 60  
 Ile Pro Tyr Gly Arg Thr His Ala Arg Ser Thr Gly Pro Arg Pro Val

65		70		75		80
Val Tyr Met Gln His Ala Leu Phe Ala Asp Asn Ala Tyr Trp Leu Glu						
	85			90		95
Asn Tyr Ala Asn Gly Ser Leu Gly Phe Leu Leu Ala Asp Ala Gly Tyr						
	100		105		110	
Asp Val Trp Met Gly Asn Ser Arg Gly Asn Thr Trp Ser Arg Arg His						
	115		120		125	
Lys Thr Leu Ser Glu Thr Asp Glu Lys Phe Trp Ala Phe Ser Phe Asp						
	130		135		140	
Glu Met Ala Asn Met Ile Ser Gln Glu						
145		150				

<210> 212  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 212
Met Arg Phe Ile Trp Leu Met Phe Leu Gln Ala Val Gln Ala Ser Gly
1 5 10 15
Lys Gly Leu Arg Lys Leu Pro His Thr Val Glu Asp Glu Gly Glu Pro
20 25 30
Glu Cys Ala Asp Tyr Met Val Arg Glu Trp Lys Gln Glu Arg Gly Ala
35 40 45
Gly Gly Ala Arg Ile Phe Ser Thr Ile Ser Ser Trp Met Ser Thr Val
50 55 60
Ala His Ala Cys Asn Pro Ser Thr Leu Gly Ala Gln Asp Gly Arg Ile
65 70 75 80
Thr Ser Ala Gln Glu Phe Asn
85

<210> 213  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 213
Met Asp Arg Arg Arg Met Ala Leu Arg Pro Gly Ser Arg Arg Pro Thr
1 5 10 15
Ala Phe Phe Phe His Ser Arg Trp Leu Val Pro Asn Leu Leu Ala Phe
20 25 30
Phe Leu Gly Leu Ser Gly Ala Gly Pro Ile His Leu Pro Met Pro Trp
35 40 45

Pro Asn Gly Arg Arg His Arg Val Leu Asp Pro His Thr Gln Leu Ser  
50 55 60

Thr His Glu Ala Pro Gly Arg Trp Lys Pro Val Ala Pro Arg Arg Met  
65 70 75 80

Lys Ala Cys Pro Gln Val Leu Leu Glu Trp  
85 90

<210> 214  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 214  
Met Met Ser Ile His Cys Val Gln Pro Leu Leu Pro Leu Phe Leu Pro  
1 5 10 15

Ser Ser Tyr Phe Lys Gln Phe Leu Leu Leu Pro Trp Thr Phe Gly Val  
20 25 30

Ala Leu

<210> 215  
<211> 245  
<212> PRT  
<213> Homo sapiens

<400> 215  
Met Phe Leu Leu Phe Leu Leu Thr Cys Glu Leu Ala Ala Glu Val Ala  
1 5 10 15

Ala Glu Val Glu Lys Ser Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro  
20 25 30

Thr Trp Leu Thr Asp Val Pro Ala Ala Met Glu Phe Ile Ala Ala Thr  
35 40 45

Glu Val Ala Val Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val  
50 55 60

Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly  
65 70 75 80

Ile Ser Thr Asp Ser Glu Val Leu Thr His Tyr Asn Ile Thr Gly Asn  
85 90 95

Thr Ile Cys Leu Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu  
100 105 110

Asp Glu Asp Ile Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile  
115 120 125

Glu Ile Asn Ser Leu His Met Val Thr Glu Tyr Asn Pro Val Ala Ser  
130 135 140

Pro Glu Tyr Glu Glu Asn Met His Arg Tyr Gln Lys Ala Ala Lys Leu  
 145 150 155 160  
 Phe Gln Gly Lys Ile Leu Phe Ile Leu Val Asp Ser Gly Met Lys Glu  
 165 170 175  
 Asn Gly Lys Val Ile Ser Phe Phe Lys Leu Lys Glu Ser Gln Leu Pro  
 180 185 190  
 Ala Leu Ala Ile Tyr Gln Thr Leu Asp Asp Glu Trp Asp Thr Leu Pro  
 195 200 205  
 Thr Ala Glu Val Ser Val Glu His Val Gln Asn Phe Cys Asp Gly Phe  
 210 215 220  
 Leu Ser Gly Lys Leu Leu Lys Glu Asn Arg Glu Ser Glu Gly Lys Thr  
 225 230 235 240  
 Pro Lys Val Glu Leu  
 245

<210> 216  
 <211> 459  
 <212> PRT  
 <213> Homo sapiens

<400> 216  
 Met Phe Pro Leu His Leu Ala Val Leu Phe Gly Phe Ser Asp Cys Cys  
 1 5 10 15  
 Arg Lys Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile Val Ser Ser Leu  
 20 25 30  
 Ser Asn Glu His Val Leu Ser Ala Gly Phe Asp Ile Asn Thr Pro Asp  
 35 40 45  
 Asn Leu Gly Arg Thr Cys Leu His Ala Ala Ala Ser Gly Gly Asn Val  
 50 55 60  
 Glu Cys Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp Leu Arg Arg Arg  
 65 70 75 80  
 Asp Lys Phe Gly Arg Thr Pro Leu His Tyr Ala Ala Ala Asn Gly Ser  
 85 90 95  
 Tyr Gln Cys Ala Val Thr Leu Val Thr Ala Gly Ala Gly Val Asn Glu  
 100 105 110  
 Ala Asp Cys Lys Gly Cys Ser Pro Leu His Tyr Ala Ala Ala Ser Asp  
 115 120 125  
 Thr Tyr Arg Arg Ala Glu Pro His Thr Pro Ser Ser His Asp Ala Glu  
 130 135 140  
 Glu Asp Glu Pro Leu Lys Glu Ser Arg Arg Lys Glu Ala Phe Phe Cys  
 145 150 155 160

Leu Glu Phe Leu Leu Asp Asn Gly Ala Asp Pro Ser Leu Arg Asp Arg  
 165 170 175  
 Gln Gly Tyr Thr Ala Val His Tyr Ala Ala Ala Tyr Gly Asn Arg Gln  
 180 185 190  
 Asn Leu Glu Leu Leu Leu Glu Met Ser Phe Asn Cys Leu Glu Asp Val  
 195 200 205  
 Glu Ser Thr Ile Pro Val Ser Pro Leu His Leu Ala Ala Tyr Asn Gly  
 210 215 220  
 His Cys Glu Ala Leu Lys Thr Leu Ala Glu Thr Leu Val Asn Leu Asp  
 225 230 235 240  
 Val Arg Asp His Lys Gly Arg Thr Ala Leu Phe Leu Ala Thr Glu Arg  
 245 250 255  
 Gly Ser Thr Glu Cys Val Glu Val Leu Thr Ala His Gly Ala Ser Ala  
 260 265 270  
 Leu Ile Lys Glu Arg Lys Arg Lys Trp Thr Pro Leu His Ala Ala Ala  
 275 280 285  
 Ala Ser Gly His Thr Asp Ser Leu His Leu Leu Ile Asp Ser Gly Glu  
 290 295 300  
 Arg Ala Asp Ile Thr Asp Val Met Asp Ala Tyr Gly Gln Thr Pro Leu  
 305 310 315 320  
 Met Leu Ala Ile Met Asn Gly His Val Asp Cys Val His Leu Leu Leu  
 325 330 335  
 Glu Lys Gly Ser Thr Ala Asp Ala Ala Asp Leu Arg Gly Arg Thr Ala  
 340 345 350  
 Leu His Arg Gly Ala Val Thr Gly Cys Glu Asp Cys Leu Ala Ala Leu  
 355 360 365  
 Leu Asp His Asp Ala Phe Val Leu Cys Arg Asp Phe Lys Gly Arg Thr  
 370 375 380  
 Pro Ile His Leu Ala Ser Ala Cys Gly His Thr Ala Val Leu Arg Thr  
 385 390 395 400  
 Leu Leu Gln Ala Ala Leu Ser Thr Asp Pro Leu Asp Ala Gly Val Asp  
 405 410 415  
 Tyr Ser Gly Tyr Ser Pro Met His Trp Ala Ser Tyr Thr Gly His Glu  
 420 425 430  
 Asp Cys Leu Glu Leu Leu Leu Glu His Ser Pro Phe Ser Tyr Leu Glu  
 435 440 445  
 Gly Asn Pro Phe Thr Pro Ser Leu Cys Ser Asp  
 450 455

<210> 217

<211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 217

Met	Lys	Arg	Tyr	Ile	Ile	Ser	Leu	Gln	Ser	Pro	Leu	Ser	His	Ser	Ser
1				5					10					15	
Met	Trp	Pro	Ala	Tyr	Leu	Leu	Pro	Ile	Met	Leu	Leu	Ile	His	Leu	Gln
			20					25					30		
Ala	Ile	Cys	His	Gln	Ile	Lys	Lys	Gln	Gln	Thr	Glu	Gly	Gln	Ser	Gln
		35					40					45			
Asp	Val	Leu	Thr	His	His	Cys	Asn	Phe	Leu	Leu	Glu	Met	Ile	Pro	Phe
	50					55					60				
Arg	Lys	Arg	Leu	Val	Glu	Ile	Gly	Val	Lys	Gly	Thr	Leu	Gln	Ile	Ser
65					70					75					80
Pro	Val	Leu	Ser	Tyr	Phe	Gln	Leu	Tyr	Arg	Gln	Glu	Gln	Phe	Lys	Ser
				85					90					95	
Lys	Glu	Phe	Ser	Arg	Phe	Leu	Gln	Cys	His	Lys	Ala	Val	Ser		
			100					105					110		

<210> 218  
 <211> 107  
 <212> PRT  
 <213> Homo sapiens

<400> 218

Met	Pro	Pro	Pro	Phe	Leu	Arg	Lys	Pro	Leu	Ile	Leu	Cys	Val	Phe	Leu
1				5					10					15	
Pro	Thr	Glu	Gly	Asn	Cys	Gly	Gly	Ser	Ser	Leu	Ala	Phe	Leu	Leu	Asn
			20					25					30		
Phe	Ala	Gly	Asn	Ser	Pro	Gln	Phe	Leu	Ser	Glu	Val	Arg	Thr	Val	His
		35					40					45			
Tyr	Gln	Arg	Asp	Trp	Thr	Leu	Tyr	Pro	Leu	Ala	Lys	Trp	Glu	Lys	Ile
	50					55					60				
Leu	Pro	Ala	His	Ser	Thr	Pro	Pro	Trp	Pro	Ser	Pro	Thr	Pro	His	Pro
65					70					75					80
Gln	Gln	His	Phe	His	Gly	Asn	Pro	Asp	Gly	Arg	Val	Val	Leu	Trp	Leu
				85					90					95	
Ser	Cys	Asp	Arg	Leu	Ala	Phe	Ile	Leu	Glu	Ser					
			100					105							

<210> 219  
 <211> 428  
 <212> PRT



<213> Homo sapiens

<400> 219

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Met Gly Pro Pro Pro Gly Ala Gly Val Ser Cys Arg Gly Gly Cys Gly
  1           5           10           15

Phe Ser Arg Leu Leu Ala Trp Cys Phe Leu Leu Ala Leu Ser Pro Gln
  20           25           30

Ala Pro Gly Ser Arg Gly Ala Glu Ala Val Trp Thr Ala Tyr Leu Asn
  35           40           45

Val Ser Trp Arg Val Pro His Thr Gly Val Asn Arg Thr Val Trp Glu
  50           55           60

Leu Ser Glu Glu Gly Val Tyr Gly Gln Asp Ser Pro Leu Glu Pro Val
  65           70           75           80

Ala Gly Val Leu Val Pro Pro Asp Gly Pro Gly Ala Leu Asn Ala Cys
  85           90           95

Asn Pro His Thr Asn Phe Thr Val Pro Thr Val Trp Gly Ser Thr Val
 100           105           110

Gln Val Ser Trp Leu Ala Leu Ile Gln Arg Gly Gly Gly Cys Thr Phe
 115           120           125

Ala Asp Lys Ile His Leu Ala Tyr Glu Arg Gly Ala Ser Gly Ala Val
 130           135           140

Ile Phe Asn Phe Pro Gly Thr Arg Asn Glu Val Ile Pro Met Ser His
 145           150           155           160

Pro Gly Ala Val Asp Ile Val Ala Ile Met Ile Gly Asn Leu Lys Gly
 165           170           175

Thr Lys Ile Leu Gln Ser Ile Gln Arg Gly Ile Gln Val Thr Met Val
 180           185           190

Ile Glu Val Gly Lys Lys His Gly Pro Trp Val Asn His Tyr Ser Ile
 195           200           205

Phe Phe Val Ser Val Ser Phe Phe Ile Ile Thr Ala Ala Thr Val Gly
 210           215           220

Tyr Phe Ile Phe Tyr Ser Ala Arg Arg Leu Arg Asn Ala Arg Ala Gln
 225           230           235           240

Ser Arg Lys Gln Arg Gln Leu Lys Ala Asp Ala Lys Lys Ala Ile Gly
 245           250           255

Arg Leu Gln Leu Arg Thr Leu Lys Gln Gly Asp Lys Glu Ile Gly Pro
 260           265           270

Asp Gly Asp Ser Cys Ala Val Cys Ile Glu Leu Tyr Lys Pro Asn Asp
 275           280           285

Leu Val Arg Ile Leu Thr Cys Asn His Ile Phe His Lys Thr Cys Val
 290           295           300
```

Asp Pro Trp Leu Leu Glu His Arg Thr Cys Pro Met Cys Lys Cys Asp  
 305 310 315 320  
 Ile Leu Lys Ala Leu Gly Ile Glu Val Asp Val Glu Asp Gly Ser Val  
 325 330 335  
 Ser Leu Gln Val Pro Val Ser Asn Glu Ile Ser Asn Ser Ala Ser Ser  
 340 345 350  
 His Glu Glu Asp Asn Arg Ser Glu Thr Ala Ser Ser Gly Tyr Ala Ser  
 355 360 365  
 Val Gln Gly Thr Asp Glu Pro Pro Leu Glu Glu His Val Gln Ser Thr  
 370 375 380  
 Asn Glu Ser Leu Gln Leu Val Asn His Glu Ala Asn Ser Val Ala Val  
 385 390 395 400  
 Asp Val Ile Pro His Val Asp Asn Pro Thr Phe Glu Glu Asp Glu Thr  
 405 410 415  
 Pro Asn Gln Glu Thr Ala Val Arg Glu Ile Lys Ser  
 420 425

<210> 220  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Leu Thr Gln Ser Gln Gln Val Leu Arg Gly Ile Leu Leu Phe Leu  
 1 5 10 15  
 Gln Asn Ile Leu Gln Val Ser Trp Gly Ser Pro Leu Ala Leu Ala Ser  
 20 25 30  
 Pro Pro Ser Pro Ser Leu Gln Pro Gly Asn Gly Leu Ala Ser Ser Leu  
 35 40 45  
 Leu Ala Leu Gln Pro Gly Leu Ala Gly Pro Trp Ala Gly Pro Gln Glu  
 50 55 60  
 Pro Ser Pro Ala Met Cys Phe Pro Lys Lys Arg Ser Leu Trp Pro Asn  
 65 70 75 80  
 Leu Arg Lys Gln Trp Ala Ser Ile His Ile Asn Asp Pro Arg Gly Thr  
 85 90 95  
 Leu Cys Pro Arg Cys Thr Gly Cys Asn Gln Arg Gly Ser Gly Gly Ser  
 100 105 110  
 Gly Leu Ile Trp Arg Asp Arg Phe Tyr His His Pro  
 115 120

<210> 221  
 <211> 87

<212> PRT  
<213> Homo sapiens

<400> 221

Met Thr Trp Ser Phe Cys Phe Ala Leu Phe Cys Phe Val Leu Phe Phe  
1 5 10 15  
Ala Ala Ser Leu Ile Gly Tyr Ile Leu Leu Pro Ser Ala Ser Pro Arg  
20 25 30  
Asn His Arg Arg Pro Asn Asn Glu Ala Arg Val Gly Thr Pro Gly Gln  
35 40 45  
Leu Asp Asp Glu Leu Lys Gly Arg Gln Pro Leu Ala Ser Arg Leu Glu  
50 55 60  
Thr Ser Gln Cys Thr Gln Gly Leu Leu Ala Ser Arg Pro Ser Gly Val  
65 70 75 80  
Ser Lys Ala Leu Leu Tyr Pro  
85

<210> 222  
<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 222

Met Glu Trp Gln Phe Gly Lys Pro Ser Phe Leu Leu Ser Leu Leu Met  
1 5 10 15  
Leu Leu Val Leu Glu Trp Lys Ala Leu Cys Gly Val Arg Leu Gly His  
20 25 30  
Leu Gly Leu Gln Val Pro Asn Pro Ser Leu Lys Ser Thr Cys Leu Trp  
35 40 45  
Pro Leu Arg Ser Leu Cys Pro Trp Arg Leu Tyr Pro Ile Lys Ile Met  
50 55 60  
Ile Ser Leu Pro Leu Pro Ser Leu Gln Leu Pro Ser Ser Pro His Arg  
65 70 75 80  
Pro Phe Gln Leu

<210> 223  
<211> 76  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 223

Met Pro Leu Pro Pro Lys Trp Pro Pro Leu Leu Thr Ala Leu Leu Cys  
1 5 10 15  
His Leu Leu Ser Thr Ser Ser Pro Leu Leu Ile Ile Leu Pro Asn His  
20 25 30  
Arg Ser Asp His Pro Leu Thr Asp Leu Ser Xaa Leu Ser Ile Ala Tyr  
35 40 45  
Lys Asn Glu Asn Gln Thr Thr Glu Leu Ser Met Thr Val Lys Ala Leu  
50 55 60  
His Leu Ala Ser Ile Tyr Cys Ile Leu His Ala Ser  
65 70 75

<210> 224

<211> 142

<212> PRT

<213> Homo sapiens

<400> 224

Met Leu Trp Thr Thr Leu Thr Gly Val Ser Leu Ala Leu Phe Pro Val  
1 5 10 15  
Ala Gln Ala Pro Thr Ala Leu Val Ala Leu Ala Val Ala Tyr Gly Phe  
20 25 30  
Thr Ser Gly Ala Leu Ala Pro Leu Ala Phe Ser Val Leu Pro Glu Leu  
35 40 45  
Ile Gly Thr Arg Arg Ile Tyr Cys Gly Leu Gly Leu Leu Gln Met Ile  
50 55 60  
Glu Ser Ile Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly Tyr Leu Arg  
65 70 75 80  
Asp Val Thr Gly Asn Tyr Thr Ala Ser Phe Val Val Ala Gly Ala Phe  
85 90 95  
Leu Leu Ser Gly Ser Gly Ile Leu Leu Thr Leu Pro His Phe Phe Cys  
100 105 110  
Phe Ser Thr Thr Thr Ser Gly Pro Gln Asp Leu Val Thr Glu Ala Leu  
115 120 125  
Asp Thr Lys Val Pro Leu Pro Lys Glu Gly Leu Glu Glu Asp  
130 135 140

<210> 225

<211> 84

<212> PRT

<213> Homo sapiens

<400> 225

Met Phe Leu Ser Gly Lys Pro Gly Glu Ser Tyr Leu Ser His Leu Pro

1	5	10	15
Cys Leu Phe	Phe Phe Phe Phe Phe Phe	Gly Trp Ser Cys Cys	Leu Asp
	20	25	30
Asp Ala Phe	Thr Met Gln Glu Arg Val	Phe Val Lys Asp	Ile Phe Glu
	35	40	45
Asp Trp Leu	Phe His Ile Val Leu His	Ser Leu Thr	Val Ala Lys Cys
	50	55	60
Thr Val Asp	Phe His Asp His Cys Ile	Phe Leu Val	Ile Glu Met Tyr
	65	70	75
			80
Leu Leu Cys Phe			

<210> 226  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 226
Met Phe Pro Ile Leu Ser Ile Thr Thr Leu Ser Ile Leu Ala Phe Phe
1 5 10 15
Leu Trp Leu Ser Val Thr Ser His Phe Tyr Arg Gln Lys Thr Gly Phe
20 25 30
His His Ser Pro Ser Phe Tyr Leu Ile Val Gln Ile Trp Asp Thr Tyr
35 40 45
Ala Asp Ile Val Ala Ser Glu Tyr Val Phe Pro Trp Arg Lys Thr Leu
50 55 60
Ser Ser Arg Glu Gln Cys Leu Ser Val Val Pro Val Ala Phe Ser Leu
65 70 75 80
Ile Asp Phe Ile Ser Lys Val Ser
85

<210> 227  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 227
Met Met Pro Thr Tyr Ala Ile Cys Met Val Leu Val Phe Leu Leu Leu
1 5 10 15
Val His Leu His Ile Ile Asn Thr Asn Thr His Thr His Thr His Thr
20 25 30
His Thr His Thr Gly Leu Leu Pro Glu Pro Tyr Met Leu Tyr Phe Gln
35 40 45

Phe Leu Ser Val Leu Arg Gly Tyr Ile Leu Ser Arg Trp Thr Asp Arg  
 50 55 60  
 Glu Tyr Thr Trp Ile Ser Thr Lys Ile Tyr Ser Pro Asn Ser Pro Glu  
 65 70 75 80  
 Pro Pro Ala Ser Cys Pro Ser Pro Thr Gln Ser Ile Ser Arg His Ala  
 85 90 95  
 Val Gln Gly Ser Thr Phe Leu Lys Ala Gln Leu Pro Thr Ser Glu Gln  
 100 105 110  
 Val Gln Ile His Pro Leu His Pro Pro Ile His Leu Ser Pro Leu  
 115 120 125

<210> 228  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 228  
 Met Thr Ser Leu Ala Arg Leu Pro Cys Ser Tyr Leu Cys Leu Pro Cys  
 1 5 10 15  
 Gln Leu Ser Ser Cys Cys Ala Phe Ser Gln Pro Ile Ser Ala Leu Leu  
 20 25 30  
 Pro Ser Pro Ser Thr Pro Val Leu Leu Ser Ala Pro Arg Pro Ser Ser  
 35 40 45  
 Gln Gly Val Pro Gly Thr Arg Ser Glu Phe Pro Ser Thr Pro Phe Cys  
 50 55 60  
 Leu Pro Ser Phe Pro Arg Glu Ser Phe Leu Asp Ser Phe His Leu Val  
 65 70 75 80  
 Ser Ser His

<210> 229  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 229  
 Met Ala Lys Ala Pro Phe Tyr His Leu Leu Phe Cys Phe Gly Ile Trp  
 1 5 10 15  
 Ser Asp Ser Tyr Ser Ser Leu Gly Leu Ala Gln Trp Arg Asn Trp Cys  
 20 25 30  
 Ser Tyr Cys Thr Gly Leu Cys Thr Pro Cys Asn Cys Asp Val Tyr Asp  
 35 40 45  
 Cys Ser Ser Cys Phe Pro Ile Leu His Phe Gln Ser Pro Arg Ala Val  
 50 55 60

Leu Ser Arg Ile Thr Ser Thr Val Asn Gln Arg Arg Asp Cys Thr Thr  
 65 70 75 80

Arg His Val Cys Trp Glu Arg Arg Lys Gly Glu Lys Pro Trp Pro Lys  
 85 90 95

Gln Ser Ile Pro Gln Ile Leu Arg His Ser Phe Val Tyr Leu Val Phe  
 100 105 110

His His

<210> 230

<211> 81

<212> PRT

<213> Homo sapiens

<400> 230

Met Arg Trp Arg Lys Pro Leu Cys Leu Trp Cys Leu Leu Thr Gln Gly  
 1 5 10 15

Glu Thr Glu Ala Gln Ala Gly Gln Pro Leu Ala Trp Gly Gly Gly Trp  
 20 25 30

Val Val Leu Arg Pro Val Thr Ser Pro Leu Gln His Pro Pro Val Asp  
 35 40 45

Pro Leu Pro Ala Pro Ala Arg Pro Glu Ser Cys Ser Gln Ala Gln Thr  
 50 55 60

Leu Ala Cys Pro Ser Gly Asp Ala Gly Gln Tyr Ser Ser Leu Gln Pro  
 65 70 75 80

Ser

<210> 231

<211> 273

<212> PRT

<213> Homo sapiens

<400> 231

Met Thr Ser Gly Pro Arg Gly Val Val His Phe Tyr Gly Tyr Ser Val  
 1 5 10 15

Val Ser Thr Leu Ala Leu Leu Val Ser Ile Ala Phe Pro Ile Pro Ile  
 20 25 30

Cys Gln Gln Trp Glu Pro Ser Tyr Lys Arg Val Lys Ala Leu Ser Ile  
 35 40 45

Val Gly Gly Asp Pro His Leu Ile Leu Leu Ala Ser Thr Thr Val Leu  
 50 55 60

Val Gly Ala Ile Val Ser Thr Val Gln Asn Phe Leu Phe Trp His Met

65		70		75		80
Lys Asp His Gly Ser Gly Glu Leu Val Met Gly Phe Ser Val Ala Leu						
	85			90		95
Ser Leu Leu Gly Glu Ile Leu Leu His Pro Phe Lys Ala Thr Leu Leu						
	100		105			110
Arg Lys Leu Ser Arg Thr Gly Leu Val Gly Leu Gly Leu Ser Cys Leu						
	115		120			125
Ala Gly Gln Leu Leu Tyr Tyr Ser Phe Leu Trp Ser Trp Trp Ser Val						
	130		135		140	
Leu Pro Ile Gln Ile Leu Ser Ala Ile Ser Asn Arg Ala Leu Trp Trp						
145		150		155		160
Ala Val Gly Ala Ser Val Glu Asp Leu Ala Thr Pro Arg Met Glu Arg						
	165		170			175
Ala Leu Ser Ala Leu Phe Arg Gly His Phe Tyr Gly Ser Gly Cys Ser						
	180		185			190
Leu Gly Ser Phe Val Gly Gly Phe Val Val Met Arg Phe Ser Leu Ala						
	195		200		205	
Val Leu Tyr Gln Ala Cys Cys Val Ala Leu Leu Leu Trp Leu Ala Leu						
	210		215		220	
Leu Leu Ser Ile Gln Arg Arg Leu Pro Arg Glu Arg Lys Ile Lys Tyr						
225		230		235		240
Ser Lys Leu Leu Ser Met Glu Val Ser Asp Thr Ser Asp Ser Glu Gln						
	245		250			255
Gly Thr Glu Gln Asp Trp Leu Val Lys Ala Met Arg Glu Glu His Ser						
	260		265			270

Asp

<210> 232  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Met Ala Ser Pro Ala Pro Ala Cys Leu Gly Ser Leu Leu Ser Trp Thr  
 1 5 10 15  
 Val Cys Gly Trp Gly Glu Val Val Ser Gly Pro Pro Cys Ala Val Ser  
 20 25 30  
 Ala Trp Gly Cys Ser Trp Ala Thr Trp Val Thr Pro Ser Val Val Val  
 35 40 45  
 Gln Leu Ala Pro Ser Gly Ala Val Gln Thr Pro Leu Ser Pro Glu Leu  
 50 55 60



Leu Val Ile Ser Phe Gln Leu His Ala Ala Pro Leu Gly Gln Phe Tyr  
 65 70 75 80  
 Phe Pro Ile Leu Gln Met Gly Lys Glu Lys Leu Arg Leu Arg Asn Met  
 85 90 95  
 Pro Lys Glu Ala Pro Val Pro Val Phe Cys Phe Val Leu Phe Cys Phe  
 100 105 110

<210> 233  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 233  
 Met Gly Gln Leu Cys His Ser Pro Ser Cys Leu Pro Ser Gly Ala Phe  
 1 5 10 15  
 Cys Leu Leu Leu Ser Ser Val Leu Gly Ile Ile Val Leu Asn Ser Thr  
 20 25 30  
 Asp Thr Ile Ser Ser Ser His Pro Pro Leu Ser Ser Asn Leu Pro Ser  
 35 40 45  
 Trp Gly Tyr Thr Thr Thr Lys Ala His Leu Ser Leu Gly Leu Val Gly  
 50 55 60  
 Phe Ala Gly Lys Glu Asn Met Lys Glu Leu Tyr Val Glu Ser Ser Arg  
 65 70 75 80  
 Ser Phe

<210> 234  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Met Ile Glu Asp Thr Met Thr Leu Leu Ser Leu Leu Gly Arg Ile Met  
 1 5 10 15  
 Arg Tyr Phe Leu Leu Arg Pro Glu Thr Leu Phe Leu Leu Cys Ile Ser  
 20 25 30  
 Leu Ala Leu Trp Ser Tyr Phe Phe His Thr Asp Glu Val Lys Thr Ile  
 35 40 45  
 Val Lys Ser Ser Arg Asp Ala Val Lys Met Val Lys Gly Lys Val Ala  
 50 55 60  
 Glu Ile Met Gln Asn Asp Arg Leu Gly Gly Leu Asp Val Leu Glu Ala

65		70		75		80									
Glu	Phe	Ser	Lys	Thr	Trp	Glu	Phe	Lys	Asn	His	Asn	Val	Gly	Gly	Val
				85					90					95	
Leu	His	Pro	Gly	Pro	Glu	Arg	Pro	His	Gly	Gly	Pro	Leu	Arg	Ser	Ser
			100					105					110		
His	Gly	Ser	Gly	Gln	Gln	Asp	Ala	Pro	Val	His	Leu	Arg	Asp	Leu	Arg
		115					120					125			
Arg	Ala	Arg	Gly	Arg	Asp	Cys	Ser								
	130					135									

<210> 235  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<400> 235  
 Met Lys Ser Lys Phe Cys Phe Ala Ser Pro Met Arg Leu Pro Lys Ala  
 1 5 10 15  
 Leu Leu Ala Phe Ser Ala Cys Trp Gln Leu Leu Ser Ala Trp Leu Leu  
 20 25 30  
 Thr Phe Leu Pro Thr Leu Leu Thr Asn Gln Lys Lys Ser Gln Glu  
 35 40 45

<210> 236  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (99)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 236  
 Met Phe Tyr Leu Thr His Pro Ile Lys Asn Phe Asn Met Ser Ser Arg  
 1 5 10 15  
 Lys Lys Lys Cys Ala Phe Tyr Ile Ile Leu Leu Leu Leu Ser Leu Ser  
 20 25 30

Pro Gly Thr Trp Phe Thr Pro Thr Pro Thr Pro Gln Leu Thr Leu Ala  
           35                          40                          45  
 Val Trp Gln Val Pro Ser Gly His Leu Xaa Arg Ala Leu Cys Ile Gln  
           50                          55                          60  
 Cys Cys Pro Pro Ala Val Ala Gly Ala Val Gly Ala Ser Asp Lys Met  
           65                          70                          75                          80  
 His Pro Gln Pro Trp Gln Cys Leu Gln Ser Cys Pro Phe Val Asn Ser  
                           85                          90                          95  
 Gly Pro Xaa His Pro His Ala Arg Pro Xaa Thr Ala Trp Asp Ala Cys  
                           100                          105                          110  
 Ala Gly Gly Arg Ala Phe Leu Val Arg His  
           115                          120

<210> 237  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<400> 237

Met Trp Phe Lys Gly Gln Leu His Phe Phe Phe Leu Phe Phe Ser Phe  
   1                          5                          10                          15  
 Leu Thr Phe Leu Phe Ser Ser Leu Phe Ser Ser Leu Leu Phe Leu Ser  
           20                          25                          30  
 Phe Leu Phe Phe Pro Phe Phe Leu Ser Gln Gly Phe Ile Leu Ser His  
           35                          40                          45  
 Arg Leu Glu Tyr Asn Gly Ile Gly Ser Leu Gln Pro Gln Thr Pro Arg  
           50                          55                          60  
 Leu Lys Pro Ser Ser Gly Leu Ser Leu Leu Ser Ser Trp Asp Tyr Arg  
           65                          70                          75                          80  
 Cys Ala Pro Leu Pro His Ser Ala Asn Phe  
                           85                          90

<210> 238  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 238

Met Pro Asn Ser Leu Leu Gly Val Phe Phe Cys Phe Val Leu Phe Cys  
   1                          5                          10                          15  
 Phe Val Leu Phe Cys Leu Ile Gln Ser Phe Thr Leu Ser Pro Arg Leu  
           20                          25                          30

Glu

<210> 239  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 239  
 Met Cys His His Ala Gln Leu Ile Phe Val Leu Leu Val Glu Thr Gly  
   1                  5                  10                  15  
 Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser His Asp  
                   20                  25                  30  
 Leu Arg Thr  
           35

<210> 240  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Met Leu Thr Asn Arg Ala Pro Ser Ser Phe Val Trp Phe Leu Cys Leu  
   1                  5                  10                  15  
 Ala Cys His Leu Pro Ser Cys Pro Ser Ala Thr Glu Glu Phe Ala Val  
                   20                  25                  30  
 Phe Ile Pro Lys Tyr His Ser Ser Arg Met Gly Ala Ala Pro Cys His  
           35                  40                  45  
 Val Leu Gly His Gly Gly Ile Lys Gly Asn Thr Cys Gln Asp Asn Ala  
   50                  55                  60  
 Gly Tyr Asp Phe Cys Arg Pro Leu Gly Leu Ala Ser Phe Leu Lys Arg  
   65                  70                  75                  80  
 Gln Asp

<210> 241  
 <211> 219  
 <212> PRT  
 <213> Homo sapiens

<400> 241  
 Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
   1                  5                  10                  15  
 Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
           20                  25                  30  
 Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
   35                  40                  45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
 50 55 60  
 Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
 65 70 75 80  
 Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
 85 90 95  
 Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
 100 105 110  
 Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
 115 120 125  
 Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp  
 130 135 140  
 Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro  
 145 150 155 160  
 Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp  
 165 170 175  
 Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Tyr Met  
 180 185 190  
 Phe Pro Ser Gln Pro Asn Trp Ile Phe Leu Leu Leu Leu Asn Met Ser  
 195 200 205  
 Met Gly Phe Leu Cys Arg Leu Gln Ile Arg Phe  
 210 215

<210> 242  
 <211> 181  
 <212> PRT  
 <213> Homo sapiens

<400> 242  
 Met Gly Leu Ile Val Val Leu Leu Phe Pro Asn Leu Cys Met Cys Thr  
 1 5 10 15  
 Phe His Ala Gly Gly Phe Gln Cys Val Leu Trp Met Ala Gly Leu Lys  
 20 25 30  
 Arg Arg Val Pro Leu His Ser Leu Arg Tyr Phe Ile Ser Met Val Gly  
 35 40 45  
 Leu Phe Ser Lys Pro Gly Leu Leu Pro Trp Tyr Ala Arg Asn Pro Pro  
 50 55 60  
 Gly Trp Ser Gln Leu Phe Leu Gly Thr Val Cys Lys Gly Asp Phe Thr  
 65 70 75 80  
 Arg Val Ile Ala Thr Lys Cys Gln Lys Gly Gln Lys Ser Gln Lys Lys  
 85 90 95

Pro Ser His Leu Gly Pro Leu Asp Gly Ser Trp Gln Glu Arg Leu Ala  
 100 105 110  
 Asp Val Val Thr Pro Leu Trp Arg Leu Ser Tyr Glu Glu Gln Leu Lys  
 115 120 125  
 Val Lys Phe Ala Ala Gln Lys Lys Ile Leu Gln Arg Leu Glu Ser Tyr  
 130 135 140  
 Ile Gln Met Leu Asn Gly Val Ser Val Thr Thr Ala Val Pro Lys Ser  
 145 150 155 160  
 Glu Arg Leu Ser Cys Leu Leu His Pro Ile Ile Pro Leu Ser Cys His  
 165 170 175  
 Gln Trp Leu Pro Lys  
 180

<210> 243  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Met Ser Asn Thr Asn Gly Ser Ala Ile Thr Glu Phe Ile Leu Leu Gly  
 1 5 10 15  
 Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu  
 20 25 30  
 Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu  
 35 40 45  
 Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr  
 50 55 60  
 Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln  
 65 70 75 80  
 Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys  
 85 90 95  
 Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr  
 100 105 110  
 Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile  
 115 120 125

<210> 244  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 244  
 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys  
 1 5 10 15

Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp  
                   20                                  25                                  30  
 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn  
                   35                                  40                                  45  
 Ser Thr Asn Leu Lys Ala Phe Thr Ala Val Ser Cys Asn Val Gly Gly  
                   50                                  55                                  60  
 Leu His Leu Gly Leu Gln Gly Pro Trp Glu Ser Ser Arg Thr Pro Arg  
                   65                                  70                                  75                                  80  
 Pro Cys Leu Asn Cys Ala Ile Asn Phe Gln Ser Tyr His Glu Pro Thr  
                                   85                                  90                                  95  
 Ser Pro His Arg Ala Ser Val Ala Thr Met Trp Ala Ser Pro Val Gln  
                                   100                                  105                                  110  
 Thr Thr Glu His Ser Thr Met Thr Gly His Ser Tyr Lys Ser Arg Asp  
                   115                                  120                                  125  
 His Gln Ser Cys  
                   130

<210> 245  
 <211> 186  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Met Ser Gly Leu Ser Arg Pro Leu Leu Leu Ala Val Gly Cys Leu Ala  
   1                                  5                                  10                                  15  
 Ala Leu Cys Val Ile Thr Ala Ala Gly Asn Thr Thr Leu Ala Pro Asn  
                   20                                  25                                  30  
 Val Thr Thr Ala Ser Ser Pro Pro Pro Thr Thr Thr Thr Val Pro Val  
                   35                                  40                                  45  
 Ser Pro Thr Thr Leu Ser Pro Leu Pro Val Thr Thr Pro Ala Pro Asp  
                   50                                  55                                  60  
 Ile Cys Gly Ser Arg Asn Ser Cys Val Ser Cys Val Asp Gly Asn Ala  
                   65                                  70                                  75                                  80  
 Thr Cys Phe Trp Ile Glu Cys Lys Gly Lys Ser Tyr Cys Ser Asp Asn  
                                   85                                  90                                  95  
 Ser Thr Ala Gly Asp Cys Lys Val Val Asn Thr Thr Gly Phe Cys Ser  
                   100                                  105                                  110  
 Ala Lys Thr Thr Thr Leu Pro Ser Thr Thr Thr Thr Ser Thr Thr Ala  
                   115                                  120                                  125  
 Thr Thr Ser Gly Thr Thr Asn Thr Thr Leu Ser Pro Thr Ile Gln Pro  
                   130                                  135                                  140

Thr Arg Lys Ser Thr Phe Asp Ala Ala Ser Phe Ile Gly Gly Ile Val  
 145 150 155 160

Leu Val Leu Gly Val Gln Ala Val Ile Phe Phe Leu Tyr Lys Phe Cys  
 165 170 175

Lys Ser Lys Glu Arg Asn Tyr His Thr Leu  
 180 185

<210> 246

<211> 114

<212> PRT

<213> Homo sapiens

<400> 246

Met Leu Val Pro Ala Ala Leu Thr Gly Leu Leu Val Phe Leu Ser Gly  
 1 5 10 15

Phe Ser Leu Phe Glu Ala Ser Gln Ile Ser Lys Glu Ile Cys Glu Ala  
 20 25 30

His Asp Ile Leu Met Cys Pro Leu Gly Asp His Ser Arg Arg Tyr Gln  
 35 40 45

Arg Leu Ser Glu Thr Cys Thr Phe Ala Lys Leu Thr His Leu Phe Asp  
 50 55 60

Asn Asp Gly Thr Val Val Phe Ala Ile Phe Met Ala Leu Trp Ala Thr  
 65 70 75 80

Val Phe Leu Glu Ile Trp Lys Arg Gln Arg Ala Arg Val Val Leu His  
 85 90 95

Trp Asp Leu Tyr Val Trp Asp Glu Glu Gln Val Arg Trp Ser Trp Gln  
 100 105 110

Arg Ser

<210> 247

<211> 91

<212> PRT

<213> Homo sapiens

<400> 247

Met Ser Arg Cys Thr Trp Pro Ser Phe Ser Phe Phe Leu Ser Ser Phe  
 1 5 10 15

Leu Ser Phe Phe Arg Trp Ser Leu Ala Leu Ser Ala Arg Leu Glu Gly  
 20 25 30

Ser Gly Val Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser  
 35 40 45

Asp Ser Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser  
 50 55 60



Arg Cys Ala Asp Val His Leu Val Ser Ile Ile Thr Lys Ala His Leu  
65 70 75 80

Val Ser Trp Pro Leu Gln Met Asn Ile Leu Pro  
85 90

<210> 248

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (33)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 248

Met Val Phe Pro Leu Leu Cys Val Phe Val Leu Ile Ser Ser Ser Leu  
1 5 10 15

Ala Gly Glu Glu Ala Ala Gly Leu Arg Val Gln Lys Leu Trp Pro Ala  
20 25 30

Xaa Xaa Leu Ser His Leu Pro Val Cys Trp Phe His Cys Ser Gly Ile  
35 40 45

Trp Ser Glu Xaa Ile Glu Leu Lys Val Gly Trp Glu Gly His Val Leu  
50 55 60

Pro Trp Gln Ala His Val Val Glu Phe  
65 70

<210> 249

<211> 118

<212> PRT

<213> Homo sapiens

<400> 249

Met His Cys His Cys Arg Val Trp Gly Phe Arg Trp Phe Leu Gly Asp  
1 5 10 15

Trp Glu Leu Leu Val Cys Met Cys Trp Val His Ala Ser Gly Ser Gln  
20 25 30

Leu Pro Gln Ala Arg Thr Gly Asn Pro Phe Pro Ser Lys Ala Ile Gly

35                      40                      45  
 Gly Ala Ser Leu Glu Ser Phe Ala Lys Ser Pro Arg Gln Asn Pro Arg  
     50                      55                      60  
 Val Gln Asp His Phe His Gly Ala His Val Phe Leu Phe Cys Arg Asn  
     65                      70                      75                      80  
 Phe Phe Leu Thr Ser Thr His His Asn Ser Glu Gly His Val Ser Ser  
                     85                      90                      95  
 Phe Leu Asp His Tyr Ser Glu Val Leu Gln Leu Tyr Ser Ser Gln Ser  
                     100                      105                      110  
 Gly Leu Gly Leu Leu Gly  
                     115

<210> 250  
 <211> 466  
 <212> PRT  
 <213> Homo sapiens

<400> 250  
 Met Phe Gly Thr Leu Leu Leu Tyr Cys Phe Phe Leu Ala Thr Val Pro  
     1                      5                      10                      15  
 Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu Lys Ser  
                     20                      25                      30  
 Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu Pro Ala Arg  
                     35                      40                      45  
 Tyr Phe Tyr Ile Gln Ala Val Asp Thr Ser Gly Asn Lys Phe Thr Ser  
                     50                      55                      60  
 Ser Pro Gly Glu Lys Val Phe Gln Val Lys Val Ser Ala Pro Glu Glu  
                     65                      70                      75                      80  
 Gln Phe Thr Arg Val Gly Val Gln Val Leu Asp Arg Lys Asp Gly Ser  
                     85                      90                      95  
 Phe Ile Val Arg Tyr Arg Met Tyr Ala Ser Tyr Lys Asn Leu Lys Val  
                     100                      105                      110  
 Glu Val Lys Phe Gln Gly Gln His Val Ala Lys Ser Pro Tyr Ile Leu  
                     115                      120                      125  
 Lys Gly Pro Val Tyr His Glu Asn Cys Asp Cys Pro Leu Gln Asp Ser  
                     130                      135                      140  
 Ala Ala Trp Leu Arg Glu Met Asn Cys Pro Glu Thr Ile Ala Gln Ile  
                     145                      150                      155                      160  
 Gln Arg Asp Leu Ala His Phe Pro Ala Val Asp Pro Glu Lys Ile Ala  
                     165                      170                      175  
 Val Glu Ile Pro Lys Arg Phe Gly Gln Arg Gln Ser Leu Cys His Tyr  
                     180                      185                      190

Thr Leu Lys Asp Asn Lys Val Tyr Ile Lys Thr His Gly Glu His Val  
 195 200 205  
 Gly Phe Arg Ile Phe Met Asp Ala Ile Leu Leu Ser Leu Thr Arg Lys  
 210 215 220  
 Val Lys Met Pro Asp Val Glu Leu Phe Val Asn Leu Gly Asp Trp Pro  
 225 230 235 240  
 Leu Glu Lys Lys Lys Ser Asn Ser Asn Ile His Pro Ile Phe Ser Trp  
 245 250 255  
 Cys Gly Ser Thr Asp Ser Lys Asp Ile Val Met Pro Thr Tyr Asp Leu  
 260 265 270  
 Thr Asp Ser Val Leu Glu Thr Met Gly Arg Val Ser Leu Asp Met Met  
 275 280 285  
 Ser Val Gln Ala Asn Thr Gly Pro Pro Trp Glu Ser Lys Asn Ser Thr  
 290 295 300  
 Ala Val Trp Arg Gly Arg Asp Ser Arg Lys Glu Arg Leu Glu Leu Val  
 305 310 315 320  
 Lys Leu Ser Arg Lys His Pro Glu Leu Ile Asp Ala Ala Phe Thr Asn  
 325 330 335  
 Phe Phe Phe Phe Lys His Asp Glu Asn Leu Tyr Gly Pro Ile Val Lys  
 340 345 350  
 His Ile Ser Phe Phe Asp Phe Phe Lys His Lys Tyr Gln Ile Asn Ile  
 355 360 365  
 Asp Gly Thr Val Ala Ala Tyr Arg Leu Pro Tyr Leu Leu Val Gly Asp  
 370 375 380  
 Ser Val Val Leu Lys Gln Asp Ser Ile Tyr Tyr Glu His Phe Tyr Asn  
 385 390 395 400  
 Glu Leu Gln Pro Trp Lys His Tyr Ile Pro Val Lys Ser Asn Leu Ser  
 405 410 415  
 Asp Leu Leu Glu Lys Leu Lys Trp Ala Lys Asp His Asp Glu Glu Ala  
 420 425 430  
 Lys Lys Ile Ala Lys Ala Gly Gln Glu Phe Ala Arg Asn Asn Leu Met  
 435 440 445  
 Gly Asp Asp Ile Phe Cys Tyr Tyr Phe Lys Leu Phe Gln Thr Lys Asp  
 450 455 460  
 Glu Leu  
 465

<210> 251

<211> 62

<212> PRT

<213> Homo sapiens

<400> 251

Met Thr Cys Gln Leu Leu Phe Asn Ser Phe Leu Leu Ser Ser Val Ser  
1 5 10 15  
Gln Ile Arg Asp Gln Ile Ala Met Arg Glu Ser Val Trp Ser Gly Ser  
20 25 30  
Ile Ser Arg Gln Lys Glu Leu Val Thr Leu Trp Ile Ile Cys Leu Trp  
35 40 45  
Phe Arg His Leu Pro Leu Val Leu Ala Val Gly Asp Gly Trp  
50 55 60

<210> 252

<211> 306

<212> PRT

<213> Homo sapiens

<400> 252

Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys  
1 5 10 15  
Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala  
20 25 30  
Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly  
35 40 45  
Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asp Gly Ala Gly  
50 55 60  
Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp  
65 70 75 80  
Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu  
85 90 95  
Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe  
100 105 110  
Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly  
115 120 125  
Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro  
130 135 140  
Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly  
145 150 155 160  
Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg His  
165 170 175  
Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro Gln  
180 185 190

Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala Ser Gln Ala Ala  
195 200 205

Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala Thr  
210 215 220

Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp Trp Ala Ser Leu  
225 230 235 240

Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala Ala Trp Ala Ser  
245 250 255

Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val Glu Asn Gly Leu  
260 265 270

Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly Pro Gly Leu Thr  
275 280 285

Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu Gly Pro Leu Gly  
290 295 300

Val Arg  
305

<210> 253  
<211> 191  
<212> PRT  
<213> Homo sapiens

<400> 253  
Met Gly Trp Ser Arg Gly Glu Gly Gln Gln Gly Trp Leu Ala Ala Ala  
1 5 10 15

Leu Cys Gly Trp Thr Arg Leu Gly Lys Ala Glu Gly Ser Glu Gly Trp  
20 25 30

Ala Thr Leu Glu Gly Cys Gln Val Pro Ser Leu Leu Gln Gly Asn Glu  
35 40 45

Gly Gly Ala Ala Leu Asn Arg His Met Pro Lys Gln Gly Ile Asp Ala  
50 55 60

Trp Ile Lys Leu Ala Thr Thr Arg Arg Ser Leu Phe Gly Ile Phe Gln  
65 70 75 80

Ile Leu Arg His Pro Ser Cys Asp Asp Gly Val Glu Arg Gly Thr Gly  
85 90 95

Pro Leu Glu Phe Cys Gly Leu His Arg His Ser Ala Gly Ile Trp Thr  
100 105 110

Cys Arg Leu Val Gly Pro Ala Gly Ser Leu Leu Pro Ala Leu Leu Arg  
115 120 125

Gly Arg Gly Gln Leu Gly Gly Arg Gly Leu Ala Glu Lys Gln Lys Asn  
130 135 140

Met Gly Cys Gly Ala Pro Ser Ala Ala Arg Gly Ser Asn Pro Ser Ser

145                      150                      155                      160  
 Ser Met Trp Glu Pro Ser Thr Pro Gly Ser Leu Ser Gln Pro Cys Leu  
                                  165                      170                      175  
 Gly Pro Gly Trp Glu Asn Pro Thr Pro Gln Gly Cys Gly Glu Gly  
                                  180                      185                      190

<210> 254  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 254  
 Met Arg Leu Phe Val Ser Val Thr Val Leu Val Ile Cys Leu Ala Asp  
   1                                 5                                 10                                 15  
 Leu Glu Glu Glu Ser Glu Ser Trp Asp Asn Ser Glu Ser Glu Glu Glu  
                                  20                                 25                                 30  
 Glu Lys Ala Pro Val Leu Pro Glu Ser Thr Glu Gly Arg Glu Leu Thr  
                                  35                                 40                                 45  
 Gln Gly Pro Ala Glu Ser Ser Ser Leu Ser Gly Cys Gly Ser Trp Gln  
                                  50                                 55                                 60  
 Pro Arg Lys Leu Pro Val Phe Lys Ser Leu Arg His Met Arg Gln Val  
   65                                 70                                 75                                 80  
 Gly Gly Arg Gly Thr Ala His Gln Glu Leu Arg Arg Arg Ala Asn His  
                                  85                                 90                                 95  
 Gly Leu Ser Leu Pro Thr Arg Leu Ala Ser Gly Pro Ser Thr Phe Lys  
                                  100                                 105                                 110  
 Thr Leu Gln Glu Val Thr Asp Ser Leu Leu Gly Gly Trp Leu Arg Ala  
                                  115                                 120                                 125  
 Gln Gly Val Gly Gly Ile Ser His Arg Ile Ser Ala Pro Leu Ser Val  
                                  130                                 135                                 140  
 Met Thr  
 145

<210> 255  
 <211> 777  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
 Met Ile Leu Leu Ile Ile Leu Trp Ile Leu Arg Glu Ile Gln Ser Ile  
   1                                 5                                 10                                 15  
 Tyr Ile Ile Gly Ile Phe Arg Asn Pro Phe Tyr Pro Lys Asp Val Gln  
                                  20                                 25                                 30

155

Asp	Ser	His	Glu	Asn	Leu	Lys	Asp	Phe	Lys	Gly	Asp	Leu	Ile	Lys	Val	355	360	365
Leu	Val	Trp	Ile	Leu	Val	Gln	Tyr	Cys	Ser	Lys	Arg	Pro	Gly	Met	Lys	370	375	380
Glu	Asn	Val	His	Asn	Thr	Glu	Asn	Lys	Gly	Lys	Ala	Pro	Leu	Met	Leu	385	390	395
Pro	Ala	Leu	Asn	Thr	Leu	Pro	Pro	Pro	Lys	Ser	Pro	Glu	Asp	Ile	Asp	405	410	415
Ser	Leu	Asn	Ser	Glu	Thr	Phe	Asn	Asp	Trp	Ser	Asp	Asp	Asn	Ile	Phe	420	425	430
Asp	Asp	Glu	Pro	Thr	Ile	Lys	Lys	Val	Ile	Glu	Glu	Lys	His	Gln	Leu	435	440	445
Lys	Asp	Leu	Pro	Gly	Thr	Asn	Leu	Phe	Ile	Pro	Gly	Ser	Val	Glu	Ser	450	455	460
Gln	Arg	Val	Gly	Asp	His	Ser	Thr	Gly	Thr	Val	Pro	Glu	Asn	Asp	Leu	465	470	475
Tyr	Lys	Ala	Val	Leu	Leu	Gly	Tyr	Pro	Ala	Val	Asp	Lys	Gly	Lys	Gln	485	490	495
Glu	Asp	Met	Pro	Tyr	Ile	Pro	Leu	Met	Glu	Phe	Ser	Cys	Ser	His	Ser	500	505	510
His	Leu	Val	Cys	Leu	Pro	Ala	Glu	Trp	Arg	Thr	Ser	Cys	Met	Pro	Ser	515	520	525
Ser	Lys	Met	Lys	Glu	Met	Ser	Ser	Leu	Phe	Pro	Glu	Asp	Trp	Tyr	Gln	530	535	540
Phe	Val	Leu	Arg	Gln	Leu	Glu	Cys	Tyr	His	Ser	Glu	Glu	Lys	Ala	Ser	545	550	555
Asn	Val	Leu	Glu	Glu	Ile	Ala	Lys	Asp	Lys	Val	Leu	Lys	Asp	Phe	Tyr	565	570	575
Val	His	Thr	Val	Met	Thr	Cys	Tyr	Phe	Ser	Leu	Phe	Gly	Ile	Asp	Asn	580	585	590
Met	Ala	Pro	Ser	Pro	Gly	His	Ile	Leu	Arg	Val	Tyr	Gly	Gly	Val	Leu	595	600	605
Pro	Trp	Ser	Val	Ala	Leu	Asp	Trp	Leu	Thr	Glu	Lys	Pro	Glu	Leu	Phe	610	615	620
Gln	Leu	Ala	Leu	Lys	Ala	Phe	Arg	Tyr	Thr	Leu	Lys	Leu	Met	Ile	Asp	625	630	635
Lys	Ala	Ser	Leu	Gly	Pro	Ile	Glu	Asp	Phe	Arg	Glu	Leu	Ile	Lys	Tyr	645	650	655
Leu	Glu	Glu	Tyr	Glu	Arg	Asp	Trp	Tyr	Ile	Gly	Leu	Val	Ser	Asp	Glu	660	665	670



Lys Trp Lys Glu Ala Ile Leu Gln Glu Lys Pro Tyr Leu Phe Ser Leu  
 675 680 685  
 Gly Tyr Asp Ser Asn Met Gly Ile Tyr Thr Gly Arg Val Leu Ser Leu  
 690 695 700  
 Gln Glu Leu Leu Ile Gln Val Gly Lys Leu Asn Pro Glu Ala Val Arg  
 705 710 715 720  
 Gly Gln Trp Ala Asn Leu Ser Trp Glu Leu Leu Tyr Ala Thr Asn Asp  
 725 730 735  
 Asp Glu Glu Arg Tyr Ser Ile Gln Ala His Pro Leu Leu Leu Arg Asn  
 740 745 750  
 Leu Thr Val Gln Ala Ala Glu Pro Pro Leu Gly Tyr Pro Ile Tyr Ser  
 755 760 765  
 Ser Lys Pro Leu His Ile His Leu Tyr  
 770 775

<210> 256  
 <211> 217  
 <212> PRT  
 <213> Homo sapiens

<400> 256  
 Met Glu Met Ala Ser Ser Ala Gly Ser Trp Leu Ser Gly Cys Leu Ile  
 1 5 10 15  
 Pro Leu Val Phe Leu Arg Leu Ser Val His Val Ser Gly His Ala Gly  
 20 25 30  
 Asp Ala Gly Lys Phe His Val Ala Leu Leu Gly Gly Thr Ala Glu Leu  
 35 40 45  
 Leu Cys Pro Leu Ser Leu Trp Pro Gly Thr Val Pro Lys Glu Val Arg  
 50 55 60  
 Trp Leu Arg Ser Pro Phe Pro Gln Arg Ser Gln Ala Val His Ile Phe  
 65 70 75 80  
 Arg Asp Gly Lys Asp Gln Asp Glu Asp Leu Met Pro Glu Tyr Lys Gly  
 85 90 95  
 Arg Thr Val Leu Val Arg Asp Ala Gln Glu Gly Ser Val Thr Leu Gln  
 100 105 110  
 Ile Leu Asp Val Arg Leu Glu Asp Gln Gly Ser Tyr Arg Cys Leu Ile  
 115 120 125  
 Gln Val Gly Asn Leu Ser Lys Glu Asp Thr Val Ile Leu Gln Val Ala  
 130 135 140  
 Ala Pro Ser Val Gly Ser Leu Ser Pro Ser Ala Val Ala Leu Ala Val  
 145 150 155 160  
 Ile Leu Pro Val Leu Val Leu Leu Ile Met Val Cys Leu Cys Leu Ile

				165						170						175			
Trp	Lys	Gln	Arg	Arg	Ala	Lys	Glu	Lys	Leu	Leu	Tyr	Glu	His	Val	Thr				
			180					185					190						
Glu	Thr	Ile	Phe	Phe	Gln	Thr	Met	Leu	Lys	Lys	Lys	Glu	Asn	Ser	Ile				
		195					200					205							
Lys	Leu	Ser	Arg	Asn	Ser	Gly	Val	Asn											
	210					215													

<210> 257  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<400> 257

Met	Ser	His	Cys	Cys	Ser	Leu	Arg	Val	Asp	Phe	Ser	Val	Pro	Leu	Cys				
1				5					10					15					
Met	Leu	Leu	Ser	Pro	Leu	Leu	Gly	Met	Ser	Phe	Ser	Ala	Cys	Gln	Thr				
			20					25					30						
Pro	Ser	Lys	Ser	Ser	Ser	Asp	Val	Thr	Phe	Ser	Leu	Ser	Thr	Pro	Asp				
		35					40					45							
Pro	Thr	Pro	Gln	Ile	Asp	Leu	Val	Gln	Pro	Ser	Ser	Gly	Phe	Pro	Gln				
	50					55					60								
His	Ser	Val	Gln	Phe	Glu	Arg	Ser	Phe	Ile	Ile	Val	Ile	Ile	Thr	Phe				
	65				70				75						80				
Phe	Lys	Asn	Asn	Phe	Ile	Phe	Ile	Asn	Leu	Ile	Arg	Leu							
				85					90										

<210> 258  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<400> 258

Met	Leu	His	Ser	Leu	Ala	Leu	Ala	Glu	Phe	Cys	Arg	Asp	Trp	Gln	His				
1				5					10					15					
Cys	Val	Pro	Ala	Cys	Ser	Pro	Thr	Val	Ala	Val	Leu	Phe	Pro	Arg	Val				
			20					25					30						
Gln	Arg	Arg	Phe	Phe	Leu	Cys	Ala	Leu	Trp	Leu	Leu	Arg	Ala	His	Gly				
		35					40					45							
Gly	Gly	Leu	Gly	Ser	Ala	Ile	Gln	Asp	Cys	Leu	Phe	Tyr	Pro	Leu	His				
	50					55					60								
Cys	Leu	Phe	Gln	Gln	Tyr	Glu	Gly	Thr	Val	Ile	Ala	His	Met	Ile	Phe				
	65				70					75					80				

Gly Ser Tyr Glu Gly Ala Phe Cys Val Gly Gly Cys Gln Ile Trp Cys  
85 90 95  
Ser Cys Arg Glu Asp Asn Arg Trp Arg Leu Leu Phe Gly His Ile Ala  
100 105 110  
Leu Pro Pro Ile Pro Ala Cys Phe Tyr Phe  
115 120

<210> 259  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 259  
Met Gly Ala Ala Trp Pro Arg Arg Ala Arg Ser Trp Trp Ile Arg Thr  
1 5 10 15  
Ser Thr Ala Ser Ser Pro Ser Pro Ser Ser Ser Ile Thr Leu Leu Trp  
20 25 30  
Thr Pro Cys Met Trp Ala Glu Ser Trp Ala Cys Cys Ser Ser Pro Thr  
35 40 45  
Tyr Thr Arg Thr Gly Lys Cys Ser Thr Asn Arg Thr Pro Arg Trp Pro  
50 55 60  
Pro Ala Leu Thr Ser Met Pro Arg Thr Ser Thr Phe Gln Gln Trp Leu  
65 70 75 80  
Ser Ser Pro Thr Phe Trp Trp Leu Val Leu Arg Trp Gly Pro Arg Ile  
85 90 95  
Gly Ser Pro Gln Thr Ser Trp Gly Cys Lys Arg Ala Gln Pro Trp Pro  
100 105 110

Gly

<210> 260  
<211> 215  
<212> PRT  
<213> Homo sapiens

<400> 260  
Met Asn Lys Arg Ala Lys Phe Glu Leu Arg Lys Pro Leu Val Leu Trp  
1 5 10 15  
Ser Leu Thr Leu Ala Val Phe Ser Ile Phe Gly Ala Leu Arg Thr Gly  
20 25 30  
Ala Tyr Met Val Tyr Ile Leu Met Thr Lys Gly Leu Lys Gln Ser Val  
35 40 45  
Cys Asp Gln Gly Phe Tyr Asn Gly Pro Val Ser Lys Phe Trp Ala Tyr  
50 55 60

Ala Phe Val Leu Ser Lys Ala Pro Glu Leu Gly Asp Thr Ile Phe Ile  
 65 70 75 80  
 Ile Leu Arg Lys Gln Lys Leu Ile Phe Leu His Trp Tyr His His Ile  
 85 90 95  
 Thr Val Leu Leu Tyr Ser Trp Tyr Ser Tyr Lys Asp Met Val Ala Gly  
 100 105 110  
 Gly Gly Trp Phe Met Thr Met Asn Tyr Gly Val His Ala Val Met Tyr  
 115 120 125  
 Ser Tyr Tyr Ala Leu Arg Ala Ala Gly Phe Arg Val Ser Arg Lys Phe  
 130 135 140  
 Ala Met Phe Ile Thr Leu Ser Gln Ile Thr Gln Met Leu Met Gly Cys  
 145 150 155 160  
 Val Val Asn Tyr Leu Val Phe Cys Trp Met Gln His Asp Gln Cys His  
 165 170 175  
 Ser His Phe Gln Asn Ile Phe Trp Ser Ser Leu Met Tyr Leu Ser Tyr  
 180 185 190  
 Leu Val Leu Phe Cys His Phe Phe Phe Glu Ala Tyr Ile Gly Lys Met  
 195 200 205  
 Arg Lys Thr Thr Lys Ala Glu  
 210 215  
  
 <210> 261  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 261  
 Met Gly Asp Lys Glu Ser Ser Ser Ser Lys Pro Ser Leu Ala Gly Trp  
 1 5 10 15  
 Val Pro Leu Leu Leu Gly Gly Ala Phe Ser Cys Thr Pro Leu Pro Pro  
 20 25 30  
 Arg Gly Glu Ser Gln Gln Pro Asn Gln Thr Ala Gln Val Val His Leu  
 35 40 45  
 Met Glu Thr Thr Gly Leu Lys His Val Leu Tyr Ser Pro Val Tyr Phe  
 50 55 60  
 Cys Cys Tyr Phe Glu Ala Trp Lys Phe Leu Phe Gly Gly Ser Trp Gly  
 65 70 75 80  
 Tyr Ser Ser Gly

<210> 262

<211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 262

Met	Ala	Leu	Asp	Ile	Ser	Leu	Phe	Tyr	Leu	Phe	Tyr	Phe	Phe	Phe	Phe	1	5	10	15
Leu	Arg	Trp	Asn	Phe	Ser	Leu	Ile	Ala	Gln	Ala	Gly	Val	Gln	Trp	His	20	25	30	
Asp	Leu	Gly	Ser	Pro	Gln	Pro	Pro	Pro	Pro	Gly	Leu	Lys	Arg	Phe	Ser	35	40	45	
Phe	Leu	Gly	Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Arg	His	Ala	Pro	Pro	Cys	50	55	60	
Pro	Ala	Asn	Phe	Val	Phe	Leu	Val	Glu	Met	Gly	Phe	Leu	His	Val	Gly	65	70	75	80
Gln	Ala	Gly	Leu	Glu	Leu	Pro	Thr	Ser	Gly	Gly	Pro	Pro	Ala	Trp	Ala	85	90	95	
Ser	Gln	Ser	Ala	Gly	Ile	Thr	Gly	Val	Ser	His	Arg	Ala	Trp	Pro	Glu	100	105	110	
Asn	Ser	His	Phe													115			

<210> 263  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<400> 263

Met	Leu	Ala	Met	Leu	Leu	Cys	Met	Leu	Val	Ser	Val	Phe	Ile	Leu	Gly	1	5	10	15
Val	Pro	Tyr	Arg	Gly	Ser	Leu	Leu	Ile	Leu	Phe	Phe	Ile	Ser	Ser	Leu	20	25	30	
Phe	Leu	Leu	Ser	Thr	Leu	Gly	Met	Gly	Leu	Leu	Ile	Ser	Thr	Ile	Thr	35	40	45	
Arg	Asn	Gln	Phe	Asn	Ala	Ala	Gln	Val	Ala	Leu	Asn	Ala	Ala	Phe	Leu	50	55	60	
Pro	Ser	Ile	Met	Leu	Ser	Gly	Phe	Ile	Phe	Gln	Ile	Asp	Ser	Met	Pro	65	70	75	80
Ala	Val	Ile	Arg	Ala	Val	Thr	Tyr	Ile	Ile	Pro	Ala	Arg	Tyr	Phe	Val	85	90	95	
Ser	Thr	Leu	Gln	Ser	Leu	Phe	Leu	Ala	Gly	Asn	Ile	Pro	Val	Val	Leu	100	105	110	
Val	Val	Asn	Val	Leu	Phe	Leu	Ile	Ala	Ser	Ala	Val	Met	Phe	Ile	Gly	115	120	125	

Leu Thr Trp Leu Lys Thr Lys Arg Arg Leu Asp  
 130 135

<210> 264  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<400> 264  
 Met Gly Trp Gln Leu Arg Ala Leu Ser Ala Val Gly Leu Trp Phe Thr  
 1 5 10 15  
 Ala Gly Asp Ser His Leu Ser Val Gln Val Cys Gly Gly Gly Pro Ala  
 20 25 30  
 Leu Thr Leu Trp His Leu Arg Ser Ser Thr Pro Thr Thr Ile Phe Pro  
 35 40 45  
 Ile Arg Ala Pro Gln Lys His Val Thr Phe Tyr Gln Asp Leu Val Arg  
 50 55 60  
 Pro Cys Val Ser Leu Leu Pro Pro Pro Leu Thr Leu Pro Phe Ser Pro  
 65 70 75 80  
 Asp Pro

<210> 265  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 265  
 Met Leu Cys His Ala Trp Leu Leu Leu Met Tyr Leu Phe Leu Glu Met  
 1 5 10 15  
 Arg Ser His Cys Val Ala Gln Thr Gly Leu Glu Leu Leu Ala Ser Ser  
 20 25 30  
 His Pro Pro Phe Ser Ala Ser Thr Val Ala Gly Ile Ser Gly Thr Cys  
 35 40 45  
 His Cys Ala Leu Leu Ile Pro Phe Lys Ile Arg  
 50 55

<210> 266  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 266  
 Met Ile His Leu Phe Leu Leu Pro Cys Pro Asn Cys Val Phe Leu Leu  
 1 5 10 15

Leu His Leu Phe Phe Gln Gln Cys Ala Ala Ser Trp Thr Thr Ser  
 20 25 30

<210> 267  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 267  
 Met Thr Leu Leu Leu Thr Leu Glu Val Asp Ser Gly Thr Gln Gln Arg  
 1 5 10 15  
 Ala Gly Val Gly Ser Gln Gly Gln Ala Val Leu Pro Gly Leu Thr Cys  
 20 25 30  
 Phe Leu Leu Thr Phe Leu Leu Ala Ala Ser Val Tyr Ile Thr Gln Ser  
 35 40 45  
 Ala Trp Asp Asn Val Glu Val Ala Glu Val Thr Gly Tyr Phe Met Phe  
 50 55 60  
 Leu His Gly Ile Phe Leu Phe Leu Ile Gly Arg Arg Arg Gln Lys Leu  
 65 70 75 80  
 Glu Glu Met Gly Leu Leu Ser  
 85

<210> 268  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

<400> 268  
 Met Tyr Pro Val Tyr Thr Thr Ser Asp Phe Cys Ser Gly Thr Phe Val  
 1 5 10 15  
 Leu Ile Phe Ala Trp Leu Thr Leu Ser Glu Leu Val Arg Val Leu His  
 20 25 30  
 Arg Lys Ile Ile Asn Trp Phe Phe Ile Phe Leu Arg Arg Phe Tyr Tyr  
 35 40 45  
 Gly Glu Leu Ala Tyr Ala Asn Met Glu Thr Thr Met Cys His Leu Gln  
 50 55 60  
 Ala Gly Asp Pro Arg Gln Leu Val Val  
 65 70

<210> 269  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 269

Met Tyr Ser Pro Ser Leu Tyr Leu Leu Pro Ser Leu Pro Ser Leu Leu  
1 5 10 15

Gln Leu Ser Leu Ser Arg Ser Pro Arg Phe Asn Lys Gly Leu Gln Arg  
20 25 30

Ala Met Glu Lys Thr Met Lys Gly Ser Thr Ile Lys Ile Leu Leu Tyr  
35 40 45

Phe Phe His His Ile Tyr Ala Ser Leu His Thr Phe Ile Pro Leu Pro  
50 55 60

Asn Pro Ser Ile Phe Leu Cys Ile Ser Lys Tyr Ile Ala Asp Ile Ser  
65 70 75 80

Thr

<210> 270

<211> 52

<212> PRT

<213> Homo sapiens

<400> 270

Met Ser Lys Lys Ser Val Ser Tyr Lys Ile Arg Tyr Phe Ser Gln Ala  
1 5 10 15

Trp Gln Leu Met Pro Val Ile Leu Val Leu Trp Glu Ala Glu Ala Gly  
20 25 30

Gly Ser Leu Glu Ala Arg Gln Asp His Ile Val Arg Leu Cys Leu Cys  
35 40 45

Lys Lys Lys Lys  
50

<210> 271

<211> 83

<212> PRT

<213> Homo sapiens

<400> 271

Met Leu Cys Ser Ser Phe Leu Pro Leu Ser Thr Ala Ala Ile Trp Ala  
1 5 10 15

Ala Leu Phe Ser Gly Met Gly Ala Val Arg His Ser Pro Ser Glu Gly  
20 25 30

Lys Arg Ser Leu Lys Ser Ser Arg Cys Leu His Phe Trp Pro Leu Pro  
35 40 45

Thr Gly Cys Ser Ser Pro Pro Pro Pro Cys Asn Val Thr Thr Lys Asn  
50 55 60

Val Ser Arg Cys Cys Gln Lys Ser Ser Arg Asp Gly Arg Val Arg Leu



65

70

75

80

Pro Pro Arg

&lt;210&gt; 272

&lt;211&gt; 84

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 272

Met Gly Leu Arg Leu Pro Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr  
 1 5 10 15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly  
 20 25 30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro  
 35 40 45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp  
 50 55 60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln  
 65 70 75 80

Asp Leu Ser Gly

&lt;210&gt; 273

&lt;211&gt; 230

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 273

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys  
 20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp  
 35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala  
 50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu  
 65 70 75 80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Glu Pro Gly Glu Glu  
 85 90 95

Gly Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln  
 100 105 110

Thr His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val  
 115 120 125  
 Leu Thr Asn Pro Gln Gly Asp Tyr Asp Thr Ser Thr Gly Lys Phe Thr  
 130 135 140  
 Cys Lys Val Pro Gly Leu Tyr Tyr Phe Val Tyr His Ala Ser His Thr  
 145 150 155 160  
 Ala Asn Leu Cys Val Leu Leu Tyr Arg Ser Gly Val Lys Val Val Thr  
 165 170 175  
 Phe Cys Gly His Thr Ser Lys Thr Asn Gln Val Asn Ser Gly Gly Val  
 180 185 190  
 Leu Leu Arg Leu Gln Val Gly Glu Glu Val Trp Leu Ala Val Asn Asp  
 195 200 205  
 Tyr Tyr Asp Met Val Gly Ile Gln Gly Ser Asp Ser Val Phe Ser Gly  
 210 215 220  
 Phe Leu Leu Phe Pro Asp  
 225 230

<210> 274  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Met Cys Ala Met Ala Pro Leu Trp Ser Pro Leu Cys Pro Ser Ile Cys  
 1 5 10 15  
 Met Cys Ser Val Ser Leu Ala Cys Val Arg Val Arg Val Ser Ala Tyr  
 20 25 30  
 Ala Ser Thr His Trp Ala Leu Gly Cys Ser Gln Gly Lys Phe Asp Leu  
 35 40 45  
 Glu Arg Leu Ser Ser Pro Trp Asn Gln Asp Phe Leu Ser Pro Pro His  
 50 55 60  
 Pro Gly Pro Val Pro Pro Trp Leu Ser Gly Tyr Trp Gly Met Glu Thr  
 65 70 75 80  
 Leu Gly Glu

<210> 275  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Met Arg Pro Gln Glu Leu Pro Arg Leu Ala Phe Pro Leu Leu Leu Leu  
 1 5 10 15

Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser Ala Thr  
                     20                    25                    30  
 Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala Arg Gln Leu Pro Ala  
                     35                    40                    45  
 Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile His Trp Gly Val Phe  
                     50                    55                    60  
 Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp Leu Tyr Leu Val Gly  
                     65                    70                    75                    80  
 Val Arg Ile Phe Val Glu Leu Glu Cys His Arg  
                     85                    90

<210> 276  
 <211> 336  
 <212> PRT  
 <213> Homo sapiens

<400> 276  
 Met Leu Glu Thr Gly Leu Phe Phe Leu Leu Ser Trp Ser Ala Phe Leu  
                     1                    5                    10                    15  
 Ser Ala Glu Ala Ala Gly Leu Thr Gly Ile Val Ala Val Leu Phe Cys  
                     20                    25                    30  
 Gly Val Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Ser Asp Ser  
                     35                    40                    45  
 Lys Ile Arg Thr Lys Gln Leu Phe Glu Phe Met Asn Phe Leu Ala Glu  
                     50                    55                    60  
 Asn Val Ile Phe Cys Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln Asn  
                     65                    70                    75                    80  
 His Ile Phe Asn Ala Leu Phe Ile Leu Gly Ala Phe Leu Ala Ile Phe  
                     85                    90                    95  
 Val Ala Arg Ala Cys Asn Ile Tyr Pro Leu Ser Phe Leu Leu Asn Leu  
                     100                    105                    110  
 Gly Arg Lys Gln Lys Ile Pro Trp Asn Phe Gln His Met Met Met Phe  
                     115                    120                    125  
 Ser Gly Leu Arg Gly Ala Ile Ala Phe Ala Leu Ala Ile Arg Asn Thr  
                     130                    135                    140  
 Glu Ser Gln Pro Lys Gln Met Met Phe Thr Thr Thr Leu Leu Leu Val  
                     145                    150                    155                    160  
 Phe Phe Thr Val Trp Val Phe Gly Gly Gly Thr Thr Pro Met Leu Thr  
                     165                    170                    175  
 Trp Leu Gln Ile Arg Val Gly Val Asp Leu Asp Glu Asn Leu Lys Glu  
                     180                    185                    190

Asp Pro Ser Ser Gln His Gln Glu Ala Asn Asn Leu Asp Lys Asn Met  
 195 200 205  
 Thr Lys Ala Glu Ser Ala Arg Leu Phe Arg Met Trp Tyr Ser Phe Asp  
 210 215 220  
 His Lys Tyr Leu Lys Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr  
 225 230 235 240  
 Thr Thr Leu Pro Glu Trp Cys Gly Pro Ile Ser Arg Leu Leu Thr Ser  
 245 250 255  
 Pro Gln Ala Tyr Gly Glu Gln Leu Lys Glu Asp Asp Val Glu Cys Ile  
 260 265 270  
 Val Asn Gln Asp Glu Leu Ala Ile Asn Tyr Gln Glu Gln Ala Ser Ser  
 275 280 285  
 Pro Cys Ser Pro Pro Ala Arg Leu Gly Leu Asp Gln Lys Ala Ser Pro  
 290 295 300  
 Gln Thr Pro Gly Lys Glu Asn Ile Tyr Glu Gly Asp Leu Gly Leu Gly  
 305 310 315 320  
 Gly Tyr Glu Leu Lys Leu Glu Gln Thr Leu Gly Gln Ser Gln Leu Asn  
 325 330 335

<210> 277  
 <211> 106  
 <212> PRT  
 <213> Homo sapiens

<400> 277  
 Met Gln Trp Leu Leu Ile Thr Pro Arg Leu Phe Tyr Phe Pro Leu Leu  
 1 5 10 15  
 Leu Leu Trp Leu Val Ser Val Lys Phe Leu Phe Ile Phe Ile Phe Gly  
 20 25 30  
 Asp Gly Gln Gly Leu Ala Pro Ser Leu Arg Pro Glu Cys Ser Gly Ala  
 35 40 45  
 Ile Met Ala His His Ser Leu Asp Phe Gln Gly Leu Ser Tyr Pro Pro  
 50 55 60  
 Thr Leu Ala Ser Ala Gly Ala Gly Thr Thr Gly Met His His His Ala  
 65 70 75 80  
 Gln Leu Ile Phe Lys Phe Phe Tyr Arg Asp Gly Val Ser Leu Cys Gly  
 85 90 95  
 Leu Gly Trp Ser Gln Thr Pro Gly His Lys  
 100 105

<210> 278  
 <211> 131  
 <212> PRT  
 <213> Homo sapiens

<400> 278  
 Met Gly Ala Ser Leu Cys Leu Thr Gln Leu Leu Leu Leu Leu Gly Lys  
   1                  5                  10                  15  
 Gly Gly Leu Gly Gln Ala Ser Ile Pro Leu Val Lys Thr Pro Ala Gly  
           20                  25                  30  
 His Gln Ala Phe Trp Thr Arg Thr His Thr His Thr His Thr His Thr  
       35                  40                  45  
 His Thr Lys Leu His Ser Arg Pro Ala Ala Val Thr Cys His Gln Glu  
       50                  55                  60  
 Ser Pro Gln Leu Arg Pro Pro Pro Ile Leu Ser Tyr Glu Lys Pro Leu  
       65                  70                  75                  80  
 Leu Trp Gly Arg Arg Leu Glu Lys Val Gly Cys Gly Gly Gln Glu Gly  
           85                  90                  95  
 Pro Cys Arg Ala Gly Gly Trp Val Trp Leu Ser Arg Cys Phe Pro Glu  
       100                  105                  110  
 Gly Ser Ala Gly Ile Arg Gly Ser Cys Gly Arg Glu Arg Ala Pro Ala  
       115                  120                  125  
 Ser Trp Leu  
       130

<210> 279  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Met Cys Val His Thr Cys Val Cys Met Cys Val His Thr Cys Val Cys  
   1                  5                  10                  15  
 Val His Ala Cys Val Trp Ala His Val Cys Met Cys Val Cys Glu Cys  
       20                  25                  30  
 Val Cys Trp Gly Gly Gly Met Ala Leu Gly Lys Val Cys Pro Gly Trp  
       35                  40                  45  
 Lys Pro His Ser Leu Pro Ser Ala Trp Arg Trp Ala Cys Ala Trp Arg  
       50                  55                  60  
 Pro Ile Ala Arg Arg Leu Arg Pro Thr Gly Ala Thr Ser Thr Val Pro  
       65                  70                  75                  80  
 Leu

<210> 280  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Met His Pro Pro Pro Gly Val Trp Leu Leu His Leu His Thr Pro Leu  
   1                  5                  10                  15  
 Arg Gly Phe Cys Leu Pro Leu Pro Leu Arg Ser Gln Glu Ala Val Pro  
           20                  25                  30  
 Gly Arg Gly Arg Arg His Leu Ser Pro Gln Leu Leu Thr Pro His Pro  
       35                  40                  45  
 Leu Thr Ser Ser Pro Phe Val Lys Tyr Thr Gln Asp Glu Thr Cys Thr  
       50                  55                  60  
 Gln Trp Leu Thr Ala Ala Arg Phe Val Thr Ala Arg Gly Gly Glu His  
       65                  70                  75                  80  
 Arg Thr Pro Ser Glu Gly Glu Gly Ile Ser Thr Ala Pro Pro Pro Cys  
           85                  90                  95  
 Trp Asn Glu Thr Gln Pro Gln Gly Gly Ala Lys Leu  
           100                  105

<210> 281  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<400> 281  
 Met Ser Cys Thr Leu Leu Ile Cys Thr Val Val Leu Gly Val Thr Thr  
   1                  5                  10                  15  
 Pro Ala Ile Gly Pro Ala Ala Pro Ser Leu Leu Ala Thr Pro Pro Gln  
       20                  25                  30  
 Ala Ala Ala Ala Thr Met Gln Pro Arg Leu Gly Arg Ala Ala Gly Ala  
       35                  40                  45

Ala

<210> 282  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 282

Xaa	Ala	Arg	Asp	Leu	Leu	Gln	Ala	Leu	Arg	His	Pro	Lys	Ala	Val	Ala	
1				5					10					15		
Phe	Gly	Glu	Met	Gly	Leu	Asp	Tyr	Ser	Tyr	Lys	Cys	Thr	Thr	Pro	Val	
			20					25					30			
Pro	Glu	Gln	His	Lys	Val	Phe	Glu	Arg	Gln	Leu	Gln	Leu	Ala	Val	Ser	
		35					40					45				
Leu	Lys	Lys	Pro	Leu	Val	Ile	His	Cys	Arg	Glu	Ala	Asp	Glu	Asp	Leu	
	50					55					60					
Leu	Glu	Ile	Met	Lys	Lys	Phe	Val	Pro	Pro	Asp	Tyr	Lys	Ile	His	Arg	
65				70						75					80	
His	Cys	Phe	Thr	Gly	Ser	Tyr	Pro	Val	Ile	Glu	Pro	Leu	Leu	Lys	Tyr	
				85					90					95		
Phe	Pro	Asn	Met	Ser	Val	Gly	Phe	Thr	Ala	Val	Leu	Thr	Tyr	Ser	Ser	
			100					105					110			
Ala	Trp	Glu	Ala	Arg	Glu	Ala	Leu	Arg	Gln	Ile	Pro	Leu	Glu	Arg	Ile	
		115					120					125				
Ile	Val	Glu	Thr	Asp	Ala	Pro	Tyr	Phe	Leu	Pro	Arg	Gln	Val	Pro	Lys	
	130					135					140					
Ser	Leu	Cys	Gln	Tyr	Ala	His	Pro	Gly	Leu	Ala	Leu	His	Thr	Val	Arg	
145					150					155					160	
Glu	Ile	Ala	Arg	Val	Lys	Asp	Gln	Pro	Leu	Ser	Leu	Thr	Leu	Ala	Ala	
				165					170					175		
Leu	Arg	Glu	Asn	Thr	Ser	Arg	Leu	Tyr	Ser	Leu						
			180					185								

<210> 283

<211> 95

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (80)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 283

Met	Val	Pro	Cys	Arg	Lys	Thr	Leu	Leu	Phe	Leu	Trp	Val	Gly	Ser	Leu	
1					5				10					15		
Cys	Arg	Asp	Val	Gly	Ser	Trp	Ser	Gly	Trp	Pro	Phe	Gly	Leu	Ser	Thr	
			20					25					30			
Ala	Thr	Gln	Pro	Arg	Leu	Arg	Leu	Gly	Lys	Gln	Thr	Gly	Ala	Gly	Gln	
		35					40					45				

Ala Arg Arg Ala Cys Arg Thr Val Ile Leu Arg Cys Gly Ser Cys Cys  
50 55 60

Arg Gly Arg Arg Thr Gly Ser Val Val Ala Trp Ser Ser Leu Pro Xaa  
65 70 75 80

Arg Thr Ser Ala Ala Glu Leu Arg Trp Arg Pro Trp Gly Pro Val  
85 90 95

<210> 284

<211> 175

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 284

Met Ala Thr Pro Xaa Gly Leu Gly Ala Leu Leu Leu Leu Leu Leu  
1 5 10 15

Pro Thr Ser Gly Gln Glu Lys Pro Thr Glu Gly Pro Arg Asn Thr Cys  
20 25 30

Leu Gly Ser Asn Asn Met Tyr Asp Ile Phe Asn Leu Asn Asp Lys Ala  
35 40 45

Leu Cys Phe Thr Lys Cys Arg Gln Ser Gly Ser Asp Ser Cys Asn Val  
50 55 60

Glu Asn Leu Gln Arg Tyr Trp Leu Asn Tyr Glu Ala His Leu Met Lys  
65 70 75 80

Glu Gly Leu Thr Gln Lys Val Asn Thr Pro Phe Leu Lys Ala Leu Val  
85 90 95

Gln Asn Leu Ser Thr Asn Thr Ala Glu Asp Phe Tyr Phe Ser Leu Glu  
100 105 110

Pro Ser Gln Val Pro Arg Gln Val Met Lys Asp Glu Asp Lys Pro Pro  
115 120 125

Asp Arg Val Arg Leu Pro Lys Ser Leu Phe Arg Ser Leu Pro Gly Asn  
130 135 140

Arg Ser Val Val Arg Leu Ala Val Thr Ile Leu Asp Ile Gly Pro Gly  
145 150 155 160

Thr Leu Phe Lys Val Arg Thr Gln Gly Ser Ser Lys Val Lys Cys  
165 170 175

<210> 285

<211> 126

<212> PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 285

```
Met Ala Ala Phe Ala Thr Ala His Leu Leu Tyr Val Trp Ala Phe Gly
 1             5             10             15

Phe Ser Pro Leu Gln Pro Gly Leu Leu Leu Leu Ile Ile Leu Ala Pro
      20             25             30

Gly Pro Tyr Leu Ser Leu Val Leu Gln His Leu Glu Pro Asp Met Val
      35             40             45

Leu Pro Val Ala Ala Tyr Gly Leu Ile Leu Met Ala Met Leu Trp Arg
      50             55             60

Gly Leu Ala Gln Gly Gly Ser Ala Gly Trp Gly Ala Leu Leu Phe Thr
      65             70             75             80

Leu Ser Asp Gly Val Leu Ala Trp Asp Thr Phe Ala Gln Pro Leu Pro
      85             90             95

His Ala Xaa Leu Val Ile Met Thr Thr Tyr Tyr Ala Ala Gln Leu Leu
      100            105            110

Ile Thr Leu Ser Ala Leu Arg Ser Pro Val Pro Lys Thr Asp
      115            120            125
```

<210> 286

<211> 187

<212> PRT

<213> Homo sapiens

<400> 286

```
Met Trp Cys Ala Ser Pro Val Ala Val Val Ala Phe Cys Ala Gly Leu
 1             5             10             15

Leu Val Ser His Pro Val Leu Thr Gln Gly Gln Glu Ala Gly Gly Arg
      20             25             30

Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe Tyr
      35             40             45

Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile Glu
      50             55             60

Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn Arg
      65             70             75             80

Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile Leu
      85             90             95

Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys Ile
      100            105            110
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Cys	Glu	Lys	Leu	Lys	Lys	Leu	Asp	Ser	Gln	Ile	Cys	Glu	Leu	Lys	Tyr
		115					120					125			
Glu	Lys	Thr	Leu	Asp	Leu	Ala	Ser	Val	Asp	Leu	Arg	Lys	Met	Arg	Val
		130				135					140				
Ala	Glu	Leu	Lys	Gln	Ile	Leu	His	Ser	Trp	Gly	Glu	Glu	Cys	Arg	Ala
145					150					155					160
Cys	Ala	Glu	Lys	Thr	Asp	Tyr	Val	Asn	Leu	Ile	Gln	Glu	Leu	Ala	Pro
				165					170					175	
Lys	Tyr	Ala	Ala	Thr	His	Pro	Lys	Thr	Glu	Leu					
			180					185							

<210> 287  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (188)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
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 <222> (200)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (202)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (203)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (204)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (206)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (211)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 287  
 Met Ser Arg Gly Leu Leu Ala Val Arg Gly Ala Phe Val Gly Ala Ser  
     1                    5                    10                    15  
  
 Leu Leu Phe Leu Leu Val Asn Val Leu Cys Ala Val Leu Ser His Arg  
             20                    25                    30  
  
 Arg Arg Ala Gln Pro Trp Ala Leu Leu Leu Val Arg Val Leu Val Ser  
             35                    40                    45  
  
 Asp Ser Leu Phe Val Ile Cys Ala Leu Ser Leu Ala Ala Cys Leu Cys  
             50                    55                    60  
  
 Leu Val Ala Arg Arg Ala Pro Ser Thr Ser Ile Tyr Leu Glu Ala Lys  
     65                    70                    75                    80  
  
 Gly Thr Ser Val Cys Gln Ala Ala Ala Met Gly Gly Ala Met Val Leu  
                     85                    90                    95  
  
 Leu Tyr Ala Ser Arg Ala Cys Tyr Asn Leu Thr Ala Leu Ala Leu Ala  
             100                    105                    110  
  
 Pro Gln Ser Arg Leu Asp Thr Phe Asp Tyr Asp Trp Tyr Asn Val Ser  
             115                    120                    125  
  
 Asp Gln Ala Asp Leu Val Asn Asp Leu Gly Asn Lys Gly Tyr Leu Val  
     130                    135                    140  
  
 Phe Gly Leu Ile Leu Phe Val Trp Glu Leu Leu Pro Thr Thr Leu Leu  
     145                    150                    155                    160  
  
 Val Gly Phe Phe Arg Val His Arg Pro Pro Gln Asp Leu Ser Thr Ser  
             165                    170                    175  
  
 His Ile Pro Gln Trp Ala Arg Ser Phe Xaa Ser Xaa Xaa Leu Leu Leu  
             180                    185                    190  
  
 Leu Thr Gly Ala Trp Ala Leu Xaa Lys Xaa Xaa Xaa Ala Xaa Phe Leu  
             195                    200                    205  
  
 Gly Thr Xaa Thr Arg Val  
     210  
  
  
 <210> 288  
 <211> 254  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE

<222> (144)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (212)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (214)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (245)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (248)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 288  
 Phe Leu Leu Val Asn Val Leu Cys Ala Val Leu Ser His Arg Arg Arg  
   1                  5                  10                  15  
 Ala Gln Pro Trp Ala Leu Leu Leu Val Arg Val Leu Val Ser Asp Ser  
                   20                  25                  30  
 Leu Phe Val Ile Cys Ala Leu Ser Leu Ala Ala Cys Leu Cys Leu Val  
           35                  40                  45  
 Ala Arg Arg Ala Pro Ser Thr Ser Ile Tyr Leu Glu Ala Lys Gly Thr  
   50                  55                  60  
 Ser Val Cys Gln Ala Ala Ala Met Gly Gly Ala Met Val Leu Leu Tyr  
   65                  70                  75                  80  
 Ala Ser Arg Ala Cys Tyr Asn Leu Thr Ala Leu Ala Leu Ala Pro Gln  
                   85                  90                  95  
 Ser Arg Leu Asp Thr Phe Asp Tyr Asp Trp Tyr Asn Val Ser Asp Gln  
           100                  105                  110  
 Ala Asp Leu Val Asn Asp Leu Gly Asn Lys Gly Tyr Leu Val Phe Gly  
   115                  120                  125  
 Leu Ile Leu Phe Val Trp Glu Leu Leu Pro Thr Thr Leu Leu Val Xaa  
   130                  135                  140  
 Phe Phe Arg Val His Arg Pro Pro Gln Asp Leu Ser Thr Ser His Ile  
  145                  150                  155                  160  
 Leu Asn Gly Gln Val Phe Ala Ser Arg Ser Tyr Phe Phe Asp Arg Ala  
           165                  170                  175  
 Gly His Cys Glu Asp Glu Gly Cys Ser Trp Glu His Ser Arg Gly Glu  
   180                  185                  190

Ser Thr Ser Met Ser Gly Ser Leu Gly Ser Gly Ser Trp Tyr Gly Ala  
195 200 205

Ile Gly Arg Xaa Pro Xaa Trp Tyr Gly Gly Ser Gln Thr Lys Thr Thr  
210 215 220

Pro Leu Ser Leu Gln Cys Arg Gln Arg Thr His Ser Leu Ser Pro Asn  
225 230 235 240

Gly Pro Leu Gln Xaa Pro Ala Xaa Leu Leu Ala Gly Ser Val  
245 250

<210> 289  
<211> 221  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (210)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (215)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (217)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 289  
Met Gly Gly Met Ile Ile Val Leu Leu Ile Cys Ile Val Trp Phe Pro  
1 5 10 15

Leu Leu Phe Met Ser Leu Ile Lys Ser Val Ala Gly Val Ile Asn Gln  
20 25 30

Pro Leu Asp Val Ser Val Thr Ile Thr Leu Gly Gly Tyr Gln Pro Ile  
35 40 45

Phe Thr Met Ser Ala Gln Gln Ser Gln Leu Lys Ile Met Asp Gln Gln  
50 55 60

Ser Phe Asn Lys Phe Ile Gln Ala Phe Ser Arg Asp Thr Gly Ala Met  
65 70 75 80

Gln Phe Leu Glu Asn Tyr Glu Lys Glu Asp Ile Thr Val Ala Glu Leu  
85 90 95

Glu Gly Asn Ser Asn Ser Leu Trp Thr Ile Ser Pro Pro Ser Lys Gln  
100 105 110

Lys Met Ile His Glu Leu Leu Asp Pro Asn Ser Ser Phe Ser Val Val  
115 120 125

Phe Ser Trp Ser Ile Gln Arg Asn Leu Ser Leu Gly Ala Lys Ser Glu

130	135	140
Ile Ala Thr Asp Lys Leu Ser Phe Pro Leu Lys Asn Ile Thr Arg Lys		
145	150	155 160
Asn Ile Ala Lys Met Ile Ala Gly Asn Ser Thr Glu Ser Ser Lys Thr		
	165	170 175
Pro Val Thr Ile Glu Lys Ile Tyr Pro Tyr Tyr Val Lys Ala Pro Ser		
	180	185 190
Asp Ser Asn Ser Lys Pro Ile Lys Gln Leu Leu Ser Glu Asn Asn Ser		
	195	200 205
Trp Xaa Leu Pro Ser Phe Xaa Gln Xaa His Thr Leu Asn		
	210	215 220

<210> 290  
 <211> 135  
 <212> PRT  
 <213> Homo sapiens

<400> 290
Met Ala Phe Lys Leu Leu Ile Leu Leu Ile Gly Thr Trp Ala Leu Phe
1 5 10 15
Phe Arg Lys Arg Arg Ala Asp Met Pro Arg Val Phe Val Phe Arg Ala
20 25 30
Leu Leu Leu Val Leu Ile Phe Leu Phe Val Val Ser Tyr Trp Leu Phe
35 40 45
Tyr Gly Val Arg Ile Leu Asp Ser Arg Asp Arg Asn Tyr Gln Gly Ile
50 55 60
Val Gln Tyr Ala Val Ser Leu Val Asp Ala Leu Leu Phe Ile His Tyr
65 70 75 80
Leu Ala Ile Val Leu Leu Glu Leu Arg Gln Leu Gln Pro Met Phe Thr
85 90 95
Leu Gln Val Val Pro Leu His Arg Trp Arg Val Pro Leu Leu Gln Pro
100 105 110
Gly Thr Pro Glu Tyr Pro Ala Ser Ser Ile Gly Gly Pro Arg Lys Leu
115 120 125
Leu Gln Arg Phe His His Leu
130 135

<210> 291  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<400> 291

Met	Leu	Cys	Cys	Trp	Phe	Pro	Trp	Arg	Ile	Leu	Ala	Ala	Gly	Gln	Val		
1				5					10					15			
Pro	Tyr	Ser	Pro	His	Ser	Pro	Gln	Val	Ala	Gly	Cys	Asp	Leu	Thr	Arg		
			20					25					30				
Cys	Glu	Ser	Gly	Gly	Ala	Arg	Ala	Leu	Ser	Ile	Gln	Arg	Ala	Ala	Leu		
		35					40					45					
Val	Val	Leu	Glu	Asn	Tyr	Tyr	Lys	Asp	Phe	Thr	Ile	Tyr	Asn	Pro	Asn		
	50					55					60						
Leu	Leu	Thr	Ala	Ser	Lys	Phe	Arg	Ala	Ala	Lys	His	Met	Ala	Gly	Leu		
65					70					75					80		
Lys	Val	Tyr	Asn	Val	Asp	Gly	Pro	Ser	Asn	Asn	Ala	Thr	Gly	Gln	Ser		
			85						90					95			
Arg	Ala	Met	Ile	Ala	Ala	Ala	Ala	Arg	Arg	Arg	Asp	Ser	Ser	His	Asn		
			100					105						110			
Glu	Leu	Tyr	Tyr	Glu	Glu	Ala	Glu	His	Glu	Arg	Arg	Val	Lys	Lys	Arg		
		115					120					125					
Lys	Ala	Arg	Leu	Val	Val	Ala	Val	Glu	Glu	Ala	Phe	Ile	His	Ile	Gln		
	130					135					140						
Arg	Leu	Gln	Ala	Glu	Glu	Gln	Gln	Lys	Ala	Pro	Gly	Glu	Val	Met	Asp		
145				150					155					160			
Pro	Arg	Glu	Ala	Ala	Gln	Ala	Ile	Phe	Pro	Ser	Met	Ala	Arg	Ala	Leu		
			165					170						175			
Gln	Lys	Tyr	Leu	Arg	Ile	Thr	Arg	Gln	Gln	Asn	Tyr	His	Ser	Met	Glu		
			180					185					190				
Ser	Ile	Leu	Gln	His	Leu	Ala	Phe	Cys	Ile	Thr	Asn	Gly	Met	Thr	Pro		
		195					200					205					
Lys	Ala	Phe	Leu	Glu	Arg	Tyr	Leu	Ser	Ala	Gly	Pro	Thr	Leu	Gln	Tyr		
	210					215					220						
Asp	Lys	Asp	Arg	Trp	Leu	Ser	Thr	Gln	Trp	Arg	Leu	Val	Ser	Asp	Glu		
225				230					235					240			
Ala	Val	Thr	Asn	Gly	Leu	Arg	Asp	Gly	Ile	Val	Phe	Val	Leu	Lys	Cys		
			245					250						255			
Leu	Asp	Phe	Ser	Leu	Val	Val	Asn	Val	Lys	Lys	Ile	Pro	Phe	Ile	Ile		
			260				265						270				
Leu	Ser	Glu	Glu	Phe	Ile	Asp	Pro	Lys	Ser	His	Lys	Phe	Val	Leu	Arg		
	275					280					285						
Leu	Gln	Ser	Glu	Thr	Ser	Val											
	290					295											

<210> 292  
 <211> 85  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Met Asp Thr Tyr Phe Ile Leu Trp Ala Ile Pro Val Thr Ile Ile Ile  
   1                  5                  10                  15  
 Cys Phe Ser Trp Leu Glu Tyr Ser Gln Thr Trp Ala Leu Gly Ala Ser  
                   20                  25                  30  
 Cys Ser Leu Pro Gln Cys Pro Phe Asp Val Met Leu Ser Leu Phe Leu  
                   35                  40                  45  
 Val His Pro Tyr Phe Pro Thr Val Trp Asp His Leu Cys Phe Pro His  
                   50                  55                  60  
 Pro Ser Pro Glu Ser Ser Pro Phe Ser Lys Cys Ser Leu Val Ala Trp  
   65                  70                  75                  80  
 Leu Glu Asn Gly Ala  
                   85

<210> 293  
 <211> 196  
 <212> PRT  
 <213> Homo sapiens

<400> 293  
 Thr Gln Arg Met Ser Gly Lys His Tyr Lys Gly Pro Glu Val Ser Cys  
   1                  5                  10                  15  
 Cys Ile Lys Tyr Phe Ile Phe Gly Phe Asn Val Ile Phe Trp Phe Leu  
                   20                  25                  30  
 Gly Ile Thr Phe Leu Gly Ile Gly Leu Trp Ala Trp Asn Glu Lys Gly  
                   35                  40                  45  
 Val Leu Ser Asn Ile Ser Ser Ile Thr Asp Leu Gly Gly Phe Asp Pro  
                   50                  55                  60  
 Val Trp Leu Phe Leu Val Val Gly Gly Val Met Phe Ile Leu Gly Phe  
   65                  70                  75                  80  
 Ala Gly Cys Ile Gly Ala Leu Arg Glu Asn Thr Phe Leu Leu Lys Phe  
                   85                  90                  95  
 Phe Ser Val Phe Leu Gly Ile Ile Phe Phe Leu Glu Leu Thr Ala Gly  
                   100                  105                  110  
 Val Leu Ala Phe Val Phe Lys Asp Trp Ile Lys Asp Gln Leu Tyr Phe  
                   115                  120                  125  
 Phe Ile Asn Asn Asn Ile Arg Ala Tyr Arg Asp Asp Ile Asp Leu Gln  
                   130                  135                  140  
 Asn Leu Ile Asp Phe Thr Gln Glu Tyr Ile Pro Met Gln Val Glu Ser



145		150		155		160									
Asp	Val	Ala	Phe	His	Ser	Pro	Ala	Ala	Leu	Lys	Ile	Pro	Gln	Lys	Met
				165					170					175	
Ser	Ser	Thr	Leu	Ser	Val	Ala	Met	Met	Pro	Gly	Lys	Asn	Gln	Lys	Leu
			180					185						190	
Thr	Ser	Arg	Leu												
			195												

<210> 294  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 294
Val Ser Leu Lys Leu Val Ile Xaa Leu Ser Trp Asn Leu Ile Thr Xaa
1 5 10 15
Val Trp Phe His Lys Asn Leu Thr Phe Gly Ser Trp Leu Ile His Trp
20 25 30
Glu Gly Pro Ser Gly Phe Phe Asn Phe Gly Gly Ser Gly Leu Gly Lys
35 40 45
Phe Phe His Leu Lys Leu Asn Leu Met Gly
50 55

<210> 295  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<400> 295
Met His Gly Ala Arg Leu Phe Val Cys Leu Phe Val Cys Phe Arg Gln
1 5 10 15
Ser Cys Tyr Val Ala Gln Ala Gly Val Gln Trp His Asn His Ser Ser
20 25 30
Leu Gln Pro Leu Ser Pro Gly Phe Lys Arg Phe Phe Cys Leu Asn Leu
35 40 45
Pro Ser Ser Trp Asp Tyr Arg His Met Ala Thr Cys Pro Trp Leu Ile
50 55 60

Phe Val Phe Leu Val Glu Met Glu Phe Arg His Val Gly Gln Ala Gly  
 65 70 75 80  
 Leu Gly Leu Leu Thr Ser Ser Asp Leu Pro Ala Leu Ala Phe Gln Ser  
 85 90 95  
 Ala Gly Ile Thr Gly Leu Ser His His Ala Trp Pro Gly Arg Phe Leu  
 100 105 110  
 Lys Lys Val Ile Glu Ile Cys Ser Cys Pro Val Pro Arg Gly Ser His  
 115 120 125  
 Ala Gly Leu Phe Ser  
 130

<210> 296  
 <211> 74  
 <212> PRT  
 <213> Homo sapiens

<400> 296  
 Ser Lys Thr Gly Ile Val Leu Gln Thr Phe Arg Ala Glu Phe Gln Glu  
 1 5 10 15  
 Leu Lys Ser Glu Lys Gln Gln Ala Ala Phe Pro Lys Arg Tyr Thr Cys  
 20 25 30  
 Phe Gly His Gln Arg Arg Thr Glu Leu Arg Ala Ala Val Glu Asn Leu  
 35 40 45  
 Lys His Ser Ala Glu Phe Leu Ser Ala Pro Leu Ala Asn Lys Leu Lys  
 50 55 60  
 Cys Gln Thr Ala Leu Ala Ala Gly Tyr Phe  
 65 70

<210> 297  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (69)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 297  
 Met Ala Pro Ala Gly Cys Cys Cys Cys Cys Cys Phe Trp Gly Gly Ala  
   1                  5                  10                  15  
 Val Ala Ala Ala Gly Ala Ala Arg Arg Val Leu Leu Leu Leu Leu Leu  
                   20                  25                  30  
 Gly Xaa Leu Ser Ala Arg Leu Arg Pro Gly Ala Leu Ala Thr Glu His  
           35                  40                  45  
 Tyr Ser Pro Leu Ala Leu Leu Lys Gln Glu Leu Xaa His Arg Gln Gln  
       50                  55                  60  
 Gln Glu Ala Pro Xaa Gly Gly Gly Gly Cys Ser Pro Gln Ser Gly Asp  
   65                  70                  75                  80  
 Trp Gly Asp Gln Tyr Ser Ala Glu Cys Gly Glu Ser Ser Phe Leu Xaa  
                   85                  90                  95  
 Phe His Asp Ser Asp Cys Glu Pro Gln Gly Ser Ser Pro Cys Asp Ser  
           100                  105                  110  
 Leu Leu Ser Leu Asn Thr Ala Lys Ile Leu Ser Gln Ala Lys Ser Ile  
       115                  120                  125  
 Ala Glu Gln Lys Arg  
       130

<210> 298  
 <211> 108  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (91)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 298

Met Thr Ser Gln Asn Leu Trp Val Ile Val Val Ile Ala Asn Ser Ile  
1 5 10 15  
Leu Val Ile Val Ala Gln Tyr Arg Asp Glu Gly Asn Arg Phe Cys Asn  
20 25 30  
Gln Met Ile Leu Gly Ser Glu Ser Thr Leu Pro Leu Thr Ser Tyr Met  
35 40 45  
Thr Ser Ser Asn Phe His His Leu Ser Met Leu Gln Phe Pro His Arg  
50 55 60  
Gln Asp Gly Cys Gly Gly Arg Gly Thr Thr Val Gln Ile His His Pro  
65 70 75 80  
Lys Phe Lys Met Leu Gln Asn Leu Xaa Arg Xaa Trp Trp Leu Ile Pro  
85 90 95  
Val Ile Pro Ala Leu Xaa Glu Val Lys Xaa Asp Gly  
100 105

<210> 299

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 299

Asn Phe Leu Glu Pro Lys Cys Asp Ala Thr Ser Gly Lys Phe His Asn  
1 5 10 15  
Ser Ser Xaa Val Ile Asp Cys Ser Gly Asn Ala Gly Thr His His Glu  
20 25 30  
Val Tyr Ser Ala Ser Ser Lys Glu Ile Pro Val Ser Ser Tyr Ile Ser  
35 40 45  
Phe Ser His Met Pro Asp Arg Tyr Leu Ser Ser Phe Thr Val Arg Tyr  
50 55 60  
Phe Cys Val Glu  
65

<210> 300

<211> 194

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (168)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 300

Met Met Trp Leu Leu Leu Thr Thr Thr Cys Leu Ile Cys Gly Thr Leu  
1 5 10 15  
Asn Ala Gly Gly Phe Leu Asp Leu Glu Asn Glu Val Asn Pro Glu Val  
20 25 30  
Trp Met Asn Thr Ser Glu Ile Ile Ile Tyr Asn Gly Tyr Pro Ser Glu  
35 40 45  
Glu Tyr Glu Val Thr Thr Glu Asp Gly Tyr Ile Leu Leu Val Asn Arg  
50 55 60  
Ile Pro Tyr Gly Arg Thr His Ala Arg Ser Thr Gly Pro Arg Pro Val  
65 70 75 80  
Val Tyr Met Gln His Ala Leu Phe Ala Asp Asn Ala Tyr Trp Leu Glu  
85 90 95  
Asn Tyr Ala Asn Gly Ser Leu Gly Phe Leu Leu Ala Asp Ala Gly Tyr  
100 105 110  
Asp Val Trp Met Gly Asn Ser Arg Gly Asn Thr Trp Ser Arg Arg His  
115 120 125  
Lys Thr Leu Ser Glu Thr Asp Glu Lys Phe Trp Ala Phe Ser Phe Asp  
130 135 140  
Glu Met Ala Lys Tyr Asp Leu Pro Gly Val Ile Asp Phe Ile Val Asn  
145 150 155 160  
Lys Thr Gly Gln Glu Lys Leu Xaa Phe Ile Gly His Ser Leu Gly Thr  
165 170 175  
Thr Ile Gly Phe Val Ala Phe Ser Pro Cys Leu Asn Trp His Lys Glu  
180 185 190  
Ser Lys

<210> 301

<211> 87

<212> PRT

<213> Homo sapiens

<400> 301

Met Arg Phe Ile Trp Leu Met Phe Leu Gln Ala Val Gln Ala Ser Gly  
1 5 10 15  
Lys Gly Leu Arg Lys Leu Pro His Thr Val Glu Asp Glu Gly Glu Pro  
20 25 30  
Glu Cys Ala Asp Tyr Met Val Arg Glu Trp Lys Gln Glu Arg Gly Ala  
35 40 45

Gly Gly Ala Arg Ile Phe Ser Thr Ile Ser Ser Trp Met Ser Thr Val  
50 55 60  
Ala His Ala Cys Asn Pro Ser Thr Leu Gly Ala Gln Asp Gly Arg Ile  
65 70 75 80  
Thr Ser Ala Gln Glu Phe Asn  
85

<210> 302  
<211> 90  
<212> PRT  
<213> Homo sapiens

<400> 302  
Met Asp Arg Arg Arg Met Ala Leu Arg Pro Gly Ser Arg Arg Pro Thr  
1 5 10 15  
Ala Phe Phe Phe His Ser Arg Trp Leu Val Pro Asn Leu Leu Ala Phe  
20 25 30  
Phe Leu Gly Leu Ser Gly Ala Gly Pro Ile His Leu Pro Met Pro Trp  
35 40 45  
Pro Asn Gly Arg Arg His Arg Val Leu Asp Pro His Thr Gln Leu Ser  
50 55 60  
Thr His Glu Ala Pro Gly Arg Trp Lys Pro Val Ala Pro Arg Arg Met  
65 70 75 80  
Lys Ala Cys Pro Gln Val Leu Leu Glu Trp  
85 90

<210> 303  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 303  
Met Met Ser Ile His Cys Val Gln Pro Leu Leu Pro Leu Phe Leu Pro  
1 5 10 15  
Ser Ser Tyr Phe Lys Gln Phe Leu Leu Leu Pro Trp Thr Phe Gly Val  
20 25 30  
Ala Leu

<210> 304  
<211> 47  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE  
 <222> (31)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 304  
 His Thr Phe Ser Asn Cys Leu Leu Glu Arg Leu Tyr Gln Ala Arg Cys  
   1                  5                  10                  15  
  
 Ser Cys Leu Met Pro Val Ile Leu Ala Leu Trp Glu Ala Glu Xaa Xaa  
                   20                  25                  30  
  
 Gly Gln Leu Glu Leu Arg Ser Ser Arg Pro Ala Trp Ala Thr Trp  
           35                  40                  45  
  
  
 <210> 305  
 <211> 245  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 305  
 Met Phe Leu Leu Phe Leu Leu Thr Cys Glu Leu Ala Ala Glu Val Ala  
   1                  5                  10                  15  
  
 Ala Glu Val Glu Lys Ser Ser Asp Gly Pro Gly Ala Ala Gln Glu Pro  
                   20                  25                  30  
  
 Thr Trp Leu Thr Asp Val Pro Ala Ala Met Glu Phe Ile Ala Ala Thr  
           35                  40                  45  
  
 Glu Val Ala Val Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val  
   50                  55                  60  
  
 Pro Ile Leu His Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly  
   65                  70                  75                  80  
  
 Ile Ser Thr Asp Ser Glu Val Leu Thr His Tyr Asn Ile Thr Gly Asn  
                   85                  90                  95  
  
 Thr Ile Cys Leu Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu  
                   100                  105                  110  
  
 Asp Glu Asp Ile Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile  
           115                  120                  125  
  
 Glu Ile Asn Ser Leu His Met Val Thr Glu Tyr Asn Pro Val Ala Ser  
   130                  135                  140  
  
 Pro Glu Tyr Glu Glu Asn Met His Arg Tyr Gln Lys Ala Ala Lys Leu  
   145                  150                  155                  160  
  
 Phe Gln Gly Lys Ile Leu Phe Ile Leu Val Asp Ser Gly Met Lys Glu  
           165                  170                  175

Asn Gly Lys Val Ile Ser Phe Phe Lys Leu Lys Glu Ser Gln Leu Pro  
 180 185 190  
 Ala Leu Ala Ile Tyr Gln Thr Leu Asp Asp Glu Trp Asp Thr Leu Pro  
 195 200 205  
 Thr Ala Glu Val Ser Val Glu His Val Gln Asn Phe Cys Asp Gly Phe  
 210 215 220  
 Leu Ser Gly Lys Leu Leu Lys Glu Asn Arg Glu Ser Glu Gly Lys Thr  
 225 230 235 240  
 Pro Lys Val Glu Leu  
 245

<210> 306  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 306  
 Met Phe Pro Leu His Leu Ala Val Leu Phe Gly Phe Ser Asp Cys Cys  
 1 5 10 15  
 Arg Lys Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile Val Ser Ser Leu  
 20 25 30  
 Ser Asn Glu His Val Leu Ser Ala Gly Phe Asp Ile Asn Thr Pro Asp  
 35 40 45  
 Asn Leu Gly Arg Thr Cys Leu His Ala Ala Ala Ser Gly Gly Asn Val  
 50 55 60  
 Glu Cys Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp Leu Arg Arg Arg  
 65 70 75 80  
 Asp Lys Phe Gly Arg Thr Pro Leu His Tyr Ala Ala Ala Asn Gly Ser  
 85 90 95  
 Tyr Gln Cys Ala Val Thr Leu Val Thr Ala Gly Ala Gly Val Asn Glu  
 100 105 110  
 Ala Asp Cys Lys Gly Cys Ser Pro Leu His Tyr Ala Ala Ala Ser Asp  
 115 120 125  
 Thr Tyr Arg Arg Ala Glu Pro His Thr Pro Ser Ser  
 130 135 140

<210> 307  
 <211> 110  
 <212> PRT  
 <213> Homo sapiens

<400> 307  
 Met Lys Arg Tyr Ile Ile Ser Leu Gln Ser Pro Leu Ser His Ser Ser  
 1 5 10 15



Met Trp Pro Ala Tyr Leu Leu Pro Ile Met Leu Leu Ile His Leu Gln  
20 25 30  
Ala Ile Cys His Gln Ile Lys Lys Gln Gln Thr Glu Gly Gln Ser Gln  
35 40 45  
Asp Val Leu Thr His His Cys Asn Phe Leu Leu Glu Met Ile Pro Phe  
50 55 60  
Arg Lys Arg Leu Val Glu Ile Gly Val Lys Gly Thr Leu Gln Ile Ser  
65 70 75 80  
Pro Val Leu Ser Tyr Phe Gln Leu Tyr Arg Gln Glu Gln Phe Lys Ser  
85 90 95  
Lys Glu Phe Ser Arg Phe Leu Gln Cys His Lys Ala Val Ser  
100 105 110

<210> 308  
<211> 107  
<212> PRT  
<213> Homo sapiens

<400> 308  
Met Pro Pro Pro Phe Leu Arg Lys Pro Leu Ile Leu Cys Val Phe Leu  
1 5 10 15  
Pro Thr Glu Gly Asn Cys Gly Gly Ser Ser Leu Ala Phe Leu Leu Asn  
20 25 30  
Phe Ala Gly Asn Ser Pro Gln Phe Leu Ser Glu Val Arg Thr Val His  
35 40 45  
Tyr Gln Arg Asp Trp Thr Leu Tyr Pro Leu Ala Lys Trp Glu Lys Ile  
50 55 60  
Leu Pro Ala His Ser Thr Pro Pro Trp Pro Ser Pro Thr Pro His Pro  
65 70 75 80  
Gln Gln His Phe His Gly Asn Pro Asp Gly Arg Val Val Leu Trp Leu  
85 90 95  
Ser Cys Asp Arg Leu Ala Phe Ile Leu Glu Ser  
100 105

<210> 309  
<211> 251  
<212> PRT  
<213> Homo sapiens

<400> 309  
Met Gly Pro Pro Pro Gly Ala Gly Val Ser Cys Arg Gly Gly Cys Gly  
1 5 10 15  
Phe Ser Arg Leu Leu Ala Trp Cys Phe Leu Leu Ala Leu Ser Pro Gln

20					25					30					
Ala	Pro	Gly	Ser	Arg	Gly	Ala	Glu	Ala	Val	Trp	Thr	Ala	Tyr	Leu	Asn
		35					40					45			
Val	Ser	Trp	Arg	Val	Pro	His	Thr	Gly	Val	Asn	Arg	Thr	Val	Trp	Glu
		50					55					60			
Leu	Ser	Glu	Glu	Gly	Val	Tyr	Gly	Gln	Asp	Ser	Pro	Leu	Glu	Pro	Val
		65					70					75			80
Ala	Gly	Val	Leu	Val	Pro	Pro	Asp	Gly	Pro	Gly	Ala	Leu	Asn	Ala	Cys
				85					90					95	
Asn	Pro	His	Thr	Asn	Phe	Thr	Val	Pro	Thr	Val	Trp	Gly	Ser	Thr	Val
			100					105					110		
Gln	Val	Ser	Trp	Leu	Ala	Leu	Ile	Gln	Arg	Gly	Gly	Gly	Cys	Thr	Phe
		115					120					125			
Ala	Asp	Lys	Ile	His	Leu	Ala	Tyr	Glu	Arg	Gly	Ala	Ser	Gly	Ala	Val
		130					135					140			
Ile	Phe	Asn	Phe	Pro	Gly	Thr	Arg	Asn	Glu	Val	Ile	Pro	Met	Ser	His
				150					155						160
Pro	Gly	Ala	Val	Asp	Ile	Val	Ala	Ile	Met	Ile	Gly	Asn	Leu	Lys	Gly
				165					170					175	
Thr	Lys	Ile	Leu	Gln	Ser	Ile	Gln	Arg	Gly	Ile	Gln	Val	Thr	Met	Val
			180					185					190		
Ile	Glu	Val	Gly	Lys	Lys	His	Gly	Pro	Trp	Val	Asn	His	Tyr	Ser	Ile
		195					200					205			
Phe	Phe	Arg	Phe	Cys	Val	Leu	Phe	Tyr	Tyr	Tyr	Gly	Gly	Asn	Cys	Gly
		210					215					220			
Leu	Phe	Tyr	Leu	Leu	Phe	Cys	Ser	Lys	Ala	Thr	Glu	Cys	Lys	Ser	Ser
		225					230					235			240
Lys	Gln	Glu	Ala	Glu	Ala	Ile	Lys	Gly	Arg	Cys					
			245						250						

<210> 310

<211> 124

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (78)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (108)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 310  
 Met Leu Thr Gln Ser Gln Gln Val Leu Arg Gly Ile Leu Leu Phe Leu  
   1                  5                 10                 15  
 Gln Asn Ile Leu Gln Val Ser Trp Gly Ser Pro Leu Ala Leu Ala Ser  
           20                 25                 30  
 Pro Pro Ser Pro Ser Leu Gln Pro Gly Asn Gly Leu Ala Ser Ser Leu  
           35                 40                 45  
 Leu Ala Leu Gln Pro Gly Leu Ala Gly Pro Trp Ala Gly Pro Gln Glu  
   50                 55                 60  
 Pro Ser Pro Ala Met Cys Phe Pro Lys Lys Arg Ser Leu Xaa Pro Asn  
   65                 70                 75                 80  
 Leu Arg Lys Gln Trp Ala Ser Ile His Ile Asn Asp Pro Arg Gly Thr  
                  85                 90                 95  
 Leu Cys Pro Arg Cys Thr Gly Cys Asn Gln Arg Xaa Ser Gly Xaa Ser  
          100                 105                 110  
 Gly Leu Ile Trp Arg Asp Arg Phe Tyr His His Pro  
   115                 120

<210> 311  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Met Thr Trp Ser Phe Cys Phe Ala Leu Phe Cys Phe Val Leu Phe Phe  
   1                 5                 10                 15  
 Ala Ala Ser Leu Ile Gly Tyr Ile Leu Leu Pro Ser Ala Ser Pro Arg  
          20                 25                 30  
 Asn His Arg Arg Pro Asn Asn Glu Ala Arg Val Gly Thr Pro Gly Gln  
          35                 40                 45  
 Leu Asp Asp Glu Leu Lys Gly Arg Gln Pro Leu Ala Ser Arg Leu Glu  
   50                 55                 60  
 Thr Ser Gln Cys Thr Gln Gly Leu Leu Ala Ser Arg Pro Ser Gly Val  
   65                 70                 75                 80  
 Ser Lys Ala Leu Leu Tyr Pro  
          85

<210> 312

<211> 84  
<212> PRT  
<213> Homo sapiens

<400> 312

```
Met Glu Trp Gln Phe Gly Lys Pro Ser Phe Leu Leu Ser Leu Leu Met
 1              5              10              15

Leu Leu Val Leu Glu Trp Lys Ala Leu Cys Gly Val Arg Leu Gly His
      20              25              30

Leu Gly Leu Gln Val Pro Asn Pro Ser Leu Lys Ser Thr Cys Leu Trp
      35              40              45

Pro Leu Arg Ser Leu Cys Pro Trp Arg Leu Tyr Pro Ile Lys Ile Met
      50              55              60

Ile Ser Leu Pro Leu Pro Ser Leu Gln Leu Pro Ser Ser Pro His Arg
      65              70              75              80

Pro Phe Gln Leu
```

<210> 313  
<211> 71  
<212> PRT  
<213> Homo sapiens

<220>

<221> SITE

<222> (4)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 313

```
Leu Pro Gly Xaa Cys Phe Asn His Leu Xaa Ile Asn Phe Trp Lys Lys
 1              5              10              15

Ile Ile Ile Phe Thr Leu Lys Phe Pro Tyr Ser Lys Tyr Ser Ile Ser
      20              25              30

Val Trp Gln Met Asp Glu Trp Ala Asp Ile Ile Gly Ser Tyr His Val
      35              40              45

Asp Tyr Glu Glu Val Gln Ser Ile Gln Asn Lys Asn Thr Lys His Ser
      50              55              60

Asn Lys Pro Arg Val Cys Gln
      65              70
```

<210> 314  
<211> 142

<212> PRT

<213> Homo sapiens

<400> 314

```
Met Leu Trp Thr Thr Leu Thr Gly Val Ser Leu Ala Leu Phe Pro Val
 1              5              10              15

Ala Gln Ala Pro Thr Ala Leu Val Ala Leu Ala Val Ala Tyr Gly Phe
              20              25              30

Thr Ser Gly Ala Leu Ala Pro Leu Ala Phe Ser Val Leu Pro Glu Leu
      35              40              45

Ile Gly Thr Arg Arg Ile Tyr Cys Gly Leu Gly Leu Leu Gln Met Ile
 50              55              60

Glu Ser Ile Gly Gly Leu Leu Gly Pro Pro Leu Ser Gly Tyr Leu Arg
 65              70              75              80

Asp Val Thr Gly Asn Tyr Thr Ala Ser Phe Val Val Ala Gly Ala Phe
              85              90              95

Leu Leu Ser Gly Ser Gly Ile Leu Leu Thr Leu Pro His Phe Phe Cys
      100              105              110

Phe Ser Thr Thr Thr Ser Gly Pro Gln Asp Leu Val Thr Glu Ala Leu
      115              120              125

Asp Thr Lys Val Pro Leu Pro Lys Glu Gly Leu Glu Glu Asp
      130              135              140
```

<210> 315

<211> 84

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 315

```
Met Phe Leu Ser Gly Lys Pro Gly Glu Ser Tyr Leu Ser His Leu Pro
 1              5              10              15

Cys Leu Xaa Phe Phe Phe Phe Phe Phe Gly Trp Ser Cys Cys Leu Asp
      20              25              30

Asp Ala Phe Thr Met Gln Glu Arg Val Phe Val Lys Asp Ile Phe Glu
      35              40              45

Asp Trp Leu Phe His Ile Val Leu His Ser Leu Thr Val Ala Lys Cys
      50              55              60

Thr Val Asp Phe His Asp His Cys Ile Phe Leu Val Ile Glu Met Tyr
      65              70              75              80

Leu Leu Cys Phe
```

<210> 316  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 316  
 Met Phe Pro Ile Leu Ser Ile Thr Thr Leu Ser Ile Leu Ala Phe Phe  
   1                  5                  10                  15  
 Leu Trp Leu Ser Val Thr Ser His Phe Tyr Arg Gln Lys Thr Gly Phe  
                   20                  25                  30  
 His His Ser Pro Ser Phe Tyr Leu Ile Val Gln Ile Trp Asp Thr Tyr  
           35                  40                  45  
 Ala Asp Ile Val Ala Ser Glu Tyr Val Phe Pro Trp Arg Xaa Thr Leu  
   50                  55                  60  
 Ser Ser Arg Glu Gln Cys Leu Ser Val Val Pro Val Ala Phe Ser Leu  
   65                  70                  75                  80  
 Ile Asp Phe Ile Ser Lys Val Ser  
                   85

<210> 317  
 <211> 127  
 <212> PRT  
 <213> Homo sapiens

<400> 317  
 Met Met Pro Thr Tyr Ala Ile Cys Met Val Leu Val Phe Leu Leu Leu  
   1                  5                  10                  15  
 Val His Leu His Ile Ile Asn Thr Asn Thr His Thr His Thr His Thr  
           20                  25                  30  
 His Thr His Thr Gly Leu Leu Pro Glu Pro Tyr Met Leu Tyr Phe Gln  
   35                  40                  45  
 Phe Leu Ser Val Leu Arg Gly Tyr Ile Leu Ser Arg Trp Thr Asp Arg  
   50                  55                  60  
 Glu Tyr Thr Trp Ile Ser Thr Lys Ile Tyr Ser Pro Asn Ser Pro Glu  
   65                  70                  75                  80  
 Pro Pro Ala Ser Cys Pro Ser Pro Thr Gln Ser Ile Ser Arg His Ala  
           85                  90                  95  
 Val Gln Gly Ser Thr Phe Leu Lys Ala Gln Leu Pro Thr Ser Glu Gln

100	105	110
Val Gln Ile His Pro Leu His Pro Pro Ile His Leu Ser Pro Leu		
115	120	125

<210> 318  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 318  
 Met Thr Ser Leu Ala Arg Leu Pro Cys Ser Tyr Leu Cys Leu Pro Cys  
 1 5 10 15  
 Gln Leu Ser Ser Cys Cys Ala Phe Ser Gln Pro Ile Ser Ala Leu Leu  
 20 25 30  
 Pro Ser Pro Ser Thr Pro Val Leu Leu Ser Ala Pro Arg Pro Ser Ser  
 35 40 45  
 Gln Gly Val Pro Gly Thr Arg Ser Glu Phe Pro Ser Thr Pro Phe Cys  
 50 55 60  
 Leu Pro Ser Phe Pro Arg Glu Ser Phe Leu Asp Ser Phe His Leu Val  
 65 70 75 80  
 Ser Ser His

<210> 319  
 <211> 86  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 319  
 Met Ala Lys Ala Pro Phe Tyr His Leu Leu Phe Cys Phe Gly Ile Trp  
 1 5 10 15  
 Ser Asp Ser Tyr Ser Ser Leu Gly Leu Ala Gln Trp Arg Asn Trp Cys  
 20 25 30

Ser Tyr Cys Thr Gly Leu Cys Thr Pro Cys Asn Cys Asp Val Tyr Asp  
35 40 45

Cys Ser Ser Cys Phe Pro Ile Leu His Phe Gln Ser Pro Arg Ala Xaa  
50 55 60

Leu Xaa Arg Ile Thr Ser Thr Val Asn His Xaa Arg Asp Cys Thr Thr  
65 70 75 80

Arg His Val Gly Gly Lys  
85

<210> 320  
<211> 70  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (13)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (21)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (22)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 320  
Ile Xaa Gly Glu Pro Arg Phe Leu Gly Thr Met Pro Xaa Leu Glu Phe  
1 5 10 15

Gly Ser Pro Pro Xaa Xaa Phe Gln Ala Gly Pro Glu Leu Pro Glu Asn  
20 25 30

Asn Ser Gly Gln Leu Thr Thr Ser Asp Ser Ser Pro Pro Asn Met Ala  
35 40 45

Tyr Pro Cys Ser Ser Asp Val Ile Leu Val Ala Ser Val Asn Ser Val  
50 55 60

Cys His Ala Val Gln Thr  
65 70

<210> 321  
<211> 81  
<212> PRT



<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (42)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (53)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 321

Met	Arg	Trp	Arg	Lys	Pro	Leu	Cys	Leu	Trp	Cys	Leu	Leu	Thr	Gln	Gly
1				5					10					15	

Glu	Thr	Glu	Ala	Gln	Ala	Gly	Gln	Pro	Leu	Ala	Trp	Gly	Gly	Gly	Trp
			20					25					30		

Val	Val	Leu	Arg	Pro	Val	Thr	Xaa	Pro	Xaa	Gln	His	Pro	Pro	Val	Asp
		35					40					45			

Pro	Leu	Pro	Ala	Xaa	Ala	Arg	Pro	Glu	Ser	Cys	Ser	Gln	Ala	Gln	Thr
	50					55					60				

Leu	Ala	Cys	Pro	Ser	Gly	Asp	Ala	Gly	Gln	Tyr	Ser	Ser	Leu	Gln	Pro
65					70					75					80

Ser

<210> 322

<211> 2

<212> PRT

<213> Homo sapiens

<400> 322

Arg Ala

1

<210> 323

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (137)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 323

Met	Thr	Ser	Gly	Pro	Arg	Gly	Val	Val	His	Phe	Tyr	Gly	Tyr	Ser	Val
1				5					10					15	
Val	Ser	Thr	Leu	Ala	Leu	Leu	Val	Ser	Ile	Ala	Phe	Pro	Ile	Pro	Ile
			20					25					30		
Cys	Gln	Gln	Trp	Glu	Pro	Ser	Tyr	Lys	Arg	Val	Lys	Ala	Leu	Ser	Ile
		35					40					45			
Val	Gly	Gly	Asp	Pro	His	Leu	Ile	Leu	Leu	Ala	Ser	Thr	Thr	Val	Leu
	50					55					60				
Val	Gly	Ala	Ile	Val	Ser	Thr	Val	Gln	Asn	Phe	Leu	Phe	Trp	His	Met
65					70					75					80
Lys	Asp	His	Gly	Ser	Gly	Glu	Leu	Val	Met	Gly	Phe	Ser	Val	Ala	Leu
				85					90					95	
Ser	Leu	Leu	Gly	Glu	Ile	Leu	Leu	His	Pro	Phe	Lys	Ala	Thr	Leu	Leu
			100					105					110		
Arg	Lys	Leu	Ser	Arg	Thr	Gly	Leu	Val	Gly	Leu	Gly	Leu	Ser	Cys	Leu
	115						120					125			
Ala	Gly	Gln	Leu	Leu	Tyr	Tyr	Ser	Xaa	Leu						
	130					135									

<210> 324  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (102)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (104)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (109)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 324  
 Met Ala Ser Pro Ala Pro Ala Cys Leu Gly Ser Leu Leu Ser Trp Thr  
     1                    5                    10                    15  
 Val Cys Gly Trp Gly Glu Val Val Ser Gly Pro Pro Cys Ala Val Ser  
                     20                    25                    30  
 Ala Trp Gly Cys Ser Trp Ala Thr Trp Val Thr Pro Ser Val Val Val  
                     35                    40                    45  
 Gln Leu Ala Pro Ser Gly Ala Val Gln Thr Pro Leu Ser Pro Glu Leu  
                     50                    55                    60  
 Leu Xaa Ile Ser Phe Gln Leu His Ala Ala Pro Leu Gly Gln Phe Tyr  
     65                    70                    75                    80  
 Phe Pro Ile Leu Gln Met Gly Lys Glu Lys Leu Arg Leu Arg Asn Met  
                     85                    90                    95  
 Pro Lys Glu Ala Pro Xaa Pro Xaa Phe Xaa Leu Phe Xaa Leu Xaa Leu  
                     100                    105                    110  
 Arg Xaa Xaa Leu Cys His Pro Gly Trp Xaa Ala Gly  
                     115                    120

<210> 325  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (63)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (76)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 325  
 Met Gly Gln Leu Cys His Ser Pro Ser Cys Leu Pro Ser Gly Ala Phe  
   1                  5                  10                  15  
 Cys Leu Leu Leu Ser Ser Val Leu Gly Ile Ile Val Leu Asn Ser Thr  
                   20                  25                  30  
 Asp Thr Ile Ser Ser Ser His Pro Pro Leu Ser Ser Asn Leu Pro Ser  
           35                  40                  45  
 Trp Gly Tyr Thr Thr Thr Lys Ala His Leu Ser Leu Gly Leu Xaa Gly  
   50                  55                  60  
 Phe Ala Gly Lys Glu Asn Met Lys Glu Leu Xaa Xaa Xaa Ser Ser Arg  
   65                  70                  75                  80  
 Ser Phe

<210> 326  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 326  
 Met Thr Leu Leu Ser Leu Leu Gly Arg Ile Met Arg Tyr Phe Leu Leu  
   1                  5                  10                  15  
 Arg Pro Glu Thr Leu Phe Leu Leu Cys Ile Ser Leu Ala Leu Trp Ser  
           20                  25                  30  
 Tyr Phe Phe His Thr Asp Glu Val Lys Thr Ile Val Lys Ser Ser Arg  
   35                  40                  45  
 Asp Ala Xaa Lys Met Val Lys Gly Lys Val Ala Glu Ile Met Gln Asn  
   50                  55                  60  
 Asp Arg Leu Gly Gly Leu Asp Val Leu Glu Ala Glu Phe Ser Lys Thr  
   65                  70                  75                  80  
 Trp Glu Phe Lys Asn His Asn Val Ala Val Tyr Ser Ile Gln Gly Arg  
           85                  90                  95

Arg Asp His Met Glu Asp Arg Phe Glu Val Leu Thr Asp Leu Ala Asn  
 100 105 110  
 Lys Thr His Pro Ser Ile Phe Gly Ile Phe Asp Gly His Gly Gly Glu  
 115 120 125  
 Thr Ala Ala Glu Tyr Val Lys Ser Arg Leu Pro Glu Ala Leu Lys Gln  
 130 135 140  
 His Leu Gln Asp Tyr Glu Lys Asp Lys Glu Asn Ser Val Leu Ser Tyr  
 145 150 155 160  
 Gln Thr Ile Leu Glu Gln Gln Ile Leu Ser Ile Asp Arg Glu Met Leu  
 165 170 175  
 Glu Lys Leu Thr Val Ser Tyr Asp Glu Ala Gly Thr Thr Cys Leu Ile  
 180 185 190  
 Ala Leu Leu Ser Asp Lys Asp Leu Thr Val Ala Asn Val Gly Asp Ser  
 195 200 205  
 Arg Gly Val Leu Cys Asp Lys Asp Gly Asn Ala Ile Pro Leu Ser His  
 210 215 220  
 Asp His Lys Pro Tyr Gln Leu Lys Glu Arg Lys Arg Ile Lys Arg Ala  
 225 230 235 240  
 Gly Gly Phe Ile Ser Phe Asn Gly  
 245

<210> 327  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 327  
 Phe Leu Ile Ala Leu Asp Leu Leu Asn Val Phe Cys Leu Leu Leu Ser  
 1 5 10 15  
 Val Phe Ser Leu Glu Ile Glu Cys Lys Pro Tyr  
 20 25

<210> 328  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 328  
 Met Lys Ser Lys Phe Cys Phe Ala Ser Pro Met Arg Leu Pro Lys Ala  
 1 5 10 15  
 Leu Leu Ala Phe Ser Ala Cys Trp Gln Leu Leu Ser Ala Trp Leu Leu  
 20 25 30  
 His Leu Ser Pro His Thr Ala Tyr Lys Ser Glu Lys Val Ser Arg Ile

Lys Ala Lys  
50

<210> 329  
<211> 33  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 329  
Met Pro Asn Ser Leu Leu Gly Val Phe Phe Cys Phe Val Leu Phe Cys  
1 5 10 15

Phe Val Leu Xaa Cys Leu Ile Gln Ser Phe Thr Leu Ser Pro Arg Leu  
20 25 30

Glu

<210> 330  
<211> 99  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (4)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (9)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (86)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 330  
Gln Lys Ala Xaa Trp Ser Gln Leu Xaa Pro Ile Tyr Leu Thr Val Xaa  
1 5 10 15

Ile Phe Gln Arg Gln Phe Gln Gly Tyr Tyr Ser His Asp Ser Thr His  
20 25 30

Pro Gln Gly Val Arg Phe Ser Leu Cys Lys Cys Ile Met Thr Phe Tyr  
           35                          40                          45  
 Asn Thr Pro Cys His Ala Leu Phe Tyr Pro Ala Arg Ile Gly Val Trp  
           50                          55                          60  
 Pro Gln Leu Val Pro Thr Ser Ser Thr Ala Ile Thr Ser Ser Ser Ser  
   65                          70                          75                          80  
 Ala Pro Ser Val Val Xaa Glu Pro Leu Val Ser Ser Glu Met His Met  
                           85                          90                          95  
 Leu Lys Ser

<210> 331  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Met Cys His His Ala Gln Leu Ile Phe Val Leu Leu Val Glu Thr Gly  
   1                          5                          10                          15  
 Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser His Asp  
                           20                          25                          30  
 Leu Arg Thr  
           35

<210> 332  
 <211> 262  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (154)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 332  
 His Gly Pro Pro Glu Gly Ala Val Gly Cys Gln Arg Glu Gln Gln Arg  
   1                          5                          10                          15  
 Gln Ala Ala Ala Gln Pro Arg Gln His Gln Ala Ile Arg Ser Val Gly  
                           20                          25                          30  
 Arg Gln Pro Val Val Cys Cys Pro Gln Thr Leu Asp Ala Gly Leu Gly  
                           35                          40                          45  
 Pro Gly His Ala Ala Val Ala Arg Pro Leu Leu Arg Pro Leu Gln Val  
   50                          55                          60  
 Gly Glu Ala Glu Cys Gly His Gly Gln Gln Gly Gly Gln Asp Pro Ala  
   65                          70                          75                          80

Gly Ser Ala His Gly Pro Gly Val Leu Gly Ser Gln Val Ala Ser Gly  
                     85                    90                    95  
 Glu Glu Gly Val His Asp Ala Gln Val Ala Val Glu Ala Asp Ala Gly  
                     100                    105                    110  
 Asp Glu Asp Asp Ala Ala Gln Gln Val Ala Gly Glu Glu Glu Ala Leu  
                     115                    120                    125  
 Gln Ala Ala Arg Gly Leu Pro Ile Ala Pro Val Leu Gly Gly Ile Glu  
                     130                    135                    140  
 Val Gly Gly Gln Arg Gly Gln Arg Gln Xaa Ala Glu Gln Val Ala Asp  
 145                    150                    155                    160  
 Cys Gln Leu Asp Arg Glu Asp His Gly Gly Val Pro Trp Ala Leu Leu  
                     165                    170                    175  
 Pro Asp Ala Glu Ala Val Gln Gly Gln Ala Ile Ala Gly His Gly His  
                     180                    185                    190  
 Gln Glu Leu Asn His Gln Tyr Gly Pro Gln Glu Val Pro Leu Glu Pro  
                     195                    200                    205  
 Thr Glu Phe Val Val Gly Ser Cys Gln Glu Val Gly Arg Ala Gly Leu  
                     210                    215                    220  
 Gly Thr Arg Asp Val Gly Cys His Ala Pro Val Pro Ile Leu Ser Leu  
 225                    230                    235                    240  
 Cys Leu Leu Pro Ser Ser Pro Ala Pro Pro Pro Val Thr Ser Gly Leu  
                     245                    250                    255  
 Val Gly Pro Ala Pro Ala  
                     260

<210> 333

<211> 82

<212> PRT

<213> Homo sapiens

<400> 333

Met Leu Thr Asn Arg Ala Pro Ser Ser Phe Val Trp Phe Leu Cys Leu  
   1                    5                    10                    15  
 Ala Cys His Leu Pro Ser Cys Pro Ser Ala Thr Glu Glu Phe Ala Val  
                     20                    25                    30  
 Phe Ile Pro Lys Tyr His Ser Ser Arg Met Gly Ala Ala Pro Cys His  
                     35                    40                    45  
 Val Leu Gly His Gly Gly Ile Lys Gly Asn Thr Cys Gln Asp Asn Ala  
                     50                    55                    60  
 Gly Tyr Asp Phe Cys Arg Pro Leu Gly Leu Ala Ser Phe Leu Lys Arg  
   65                    70                    75                    80



Gln Asp

<210> 334

<211> 587

<212> PRT

<213> Homo sapiens

<400> 334

Met Arg Pro Arg Gly Leu Pro Pro Leu Leu Val Val Leu Leu Gly Cys  
1 5 10 15

Trp Ala Ser Val Ser Ala Gln Thr Asp Ala Thr Pro Ala Val Thr Thr  
20 25 30

Glu Gly Leu Asn Ser Thr Glu Ala Ala Leu Ala Thr Phe Gly Thr Phe  
35 40 45

Pro Ser Thr Arg Pro Pro Gly Thr Pro Arg Ala Pro Gly Pro Ser Ser  
50 55 60

Gly Pro Arg Pro Thr Pro Val Thr Asp Val Ala Val Leu Cys Val Cys  
65 70 75 80

Asp Leu Ser Pro Ala Gln Cys Asp Ile Asn Cys Cys Cys Asp Pro Asp  
85 90 95

Cys Ser Ser Val Asp Phe Ser Val Phe Ser Ala Cys Ser Val Pro Val  
100 105 110

Val Thr Gly Asp Ser Gln Phe Cys Ser Gln Lys Ala Val Ile Tyr Ser  
115 120 125

Leu Asn Phe Thr Ala Asn Pro Pro Gln Arg Val Phe Glu Leu Val Asp  
130 135 140

Gln Ile Asn Pro Ser Ile Phe Cys Ile His Ile Thr Asn Tyr Lys Pro  
145 150 155 160

Ala Leu Ser Phe Ile Asn Pro Glu Val Pro Asp Glu Asn Asn Phe Asp  
165 170 175

Thr Leu Met Lys Thr Ser Asp Gly Phe Thr Leu Asn Ala Glu Ser Tyr  
180 185 190

Val Ser Phe Thr Thr Lys Leu Asp Ile Pro Thr Ala Ala Lys Tyr Glu  
195 200 205

Tyr Gly Val Pro Leu Gln Thr Ser Asp Ser Phe Leu Arg Phe Pro Ser  
210 215 220

Ser Leu Thr Ser Ser Leu Cys Thr Asp Asn Asn Pro Ala Ala Phe Leu  
225 230 235 240

Val Asn Gln Ala Val Lys Cys Thr Arg Lys Ile Asn Leu Glu Gln Cys  
245 250 255

Glu Glu Ile Glu Ala Leu Ser Met Ala Phe Tyr Ser Ser Pro Glu Ile

260					265					270					
Leu	Arg	Val	Pro	Asp	Ser	Arg	Lys	Lys	Val	Pro	Ile	Thr	Val	Gln	Ser
		275					280					285			
Ile	Val	Ile	Gln	Ser	Leu	Asn	Lys	Thr	Leu	Thr	Arg	Arg	Glu	Asp	Thr
		290				295					300				
Asp	Val	Leu	Gln	Pro	Thr	Leu	Val	Asn	Ala	Gly	His	Phe	Ser	Leu	Cys
305					310					315					320
Val	Asn	Val	Val	Leu	Glu	Val	Lys	Tyr	Ser	Leu	Thr	Tyr	Thr	Asp	Ala
				325					330					335	
Gly	Glu	Val	Thr	Lys	Ala	Asp	Leu	Ser	Phe	Val	Leu	Gly	Thr	Val	Ser
			340					345					350		
Ser	Val	Val	Val	Pro	Leu	Gln	Gln	Lys	Phe	Glu	Ile	His	Phe	Leu	Gln
		355					360					365			
Glu	Asn	Thr	Gln	Pro	Val	Pro	Leu	Ser	Gly	Asn	Pro	Gly	Tyr	Val	Val
	370					375					380				
Gly	Leu	Pro	Leu	Ala	Ala	Gly	Phe	Gln	Pro	His	Lys	Gly	Ser	Gly	Ile
385					390					395					400
Ile	Gln	Thr	Thr	Asn	Arg	Tyr	Gly	Gln	Leu	Thr	Ile	Leu	His	Ser	Thr
				405					410					415	
Thr	Glu	Gln	Asp	Cys	Leu	Ala	Leu	Glu	Gly	Val	Arg	Thr	Pro	Val	Leu
			420					425					430		
Phe	Gly	Tyr	Thr	Met	Gln	Ser	Gly	Cys	Lys	Leu	Arg	Leu	Thr	Gly	Ala
		435					440					445			
Leu	Pro	Cys	Gln	Leu	Val	Ala	Gln	Lys	Val	Lys	Ser	Leu	Leu	Trp	Gly
	450					455					460				
Gln	Gly	Phe	Pro	Asp	Tyr	Val	Ala	Pro	Phe	Gly	Asn	Ser	Gln	Ala	Gln
465					470					475					480
Asp	Met	Leu	Asp	Trp	Val	Pro	Ile	His	Phe	Ile	Thr	Gln	Ser	Phe	Asn
				485					490					495	
Arg	Lys	Asp	Ser	Cys	Gln	Leu	Pro	Gly	Ala	Leu	Val	Ile	Glu	Val	Lys
			500					505					510		
Trp	Thr	Lys	Tyr	Gly	Ser	Leu	Leu	Asn	Pro	Gln	Ala	Lys	Ile	Val	Asn
		515					520					525			
Val	Thr	Ala	Asn	Leu	Ile	Ser	Ser	Ser	Phe	Pro	Glu	Ala	Asn	Ser	Gly
		530				535					540				
Asn	Glu	Arg	Thr	Ile	Leu	Ile	Ser	Thr	Ala	Val	Thr	Phe	Val	Asp	Val
545					550					555					560
Ser	Ala	Pro	Ala	Glu	Ala	Gly	Phe	Arg	Ala	Pro	Pro	Ala	Ile	Asn	Ala
				565					570					575	
Arg	Leu	Pro	Phe	Asn	Phe	Phe	Phe	Pro	Phe	Val					

<210> 335  
 <211> 337  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (173)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (255)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (320)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 335

Met	Gly	Leu	Ile	Val	Val	Leu	Leu	Phe	Pro	Asn	Leu	Cys	Met	Cys	Thr
1				5					10					15	
Phe	His	Ala	Gly	Gly	Phe	Gln	Cys	Val	Leu	Trp	Met	Ala	Gly	Leu	Lys
			20					25					30		
Arg	Arg	Val	Pro	Leu	His	Ser	Leu	Arg	Tyr	Phe	Ile	Ser	Met	Val	Gly
		35					40					45			
Leu	Phe	Ser	Lys	Pro	Gly	Leu	Leu	Pro	Trp	Tyr	Ala	Arg	Asn	Pro	Pro
	50					55					60				
Gly	Trp	Ser	Gln	Leu	Phe	Leu	Gly	Thr	Val	Cys	Lys	Gly	Asp	Phe	Thr
65					70					75					80
Arg	Val	Ile	Ala	Thr	Lys	Cys	Gln	Lys	Gly	Gln	Lys	Ser	Gln	Lys	Lys
				85					90					95	
Pro	Ser	His	Leu	Gly	Pro	Leu	Asp	Gly	Ser	Trp	Gln	Glu	Arg	Leu	Ala
					100				105					110	
Asp	Val	Val	Thr	Pro	Leu	Trp	Arg	Leu	Ser	Tyr	Glu	Glu	Gln	Leu	Lys
	115						120					125			
Val	Lys	Phe	Ala	Ala	Gln	Lys	Lys	Ile	Leu	Gln	Arg	Leu	Glu	Ser	Tyr
	130					135					140				
Ile	Gln	Met	Leu	Asn	Gly	Val	Ser	Val	Thr	Thr	Ala	Val	Pro	Lys	Ser
145					150					155					160
Glu	Arg	Leu	Ser	Cys	Leu	Leu	His	Pro	Ile	Ile	Pro	Xaa	Pro	Val	Ile
				165					170					175	
Asn	Gly	Tyr	Arg	Asn	Lys	Ser	Thr	Phe	Ser	Val	Asn	Arg	Gly	Pro	Asp

180	185	190
Gly Asn Pro Lys Thr Val Gly Phe Tyr Leu Gly Thr Trp Arg Asp Gly		
195	200	205
Asn Val Val Cys Val Gln Ser Asn His Leu Lys Asn Ile Pro Glu Lys		
210	215	220
His Ser Gln Val Ala Gln Tyr Tyr Glu Val Phe Leu Arg Gln Ser Pro		
225	230	235 240
Leu Glu Pro Cys Leu Val Phe His Glu Gly Gly Tyr Trp Arg Xaa Leu		
245	250	255
Thr Val Arg Thr Asn Ser Gln Gly His Thr Met Ala Ile Ile Thr Phe		
260	265	270
His Pro Gln Lys Leu Ser Gln Glu Glu Leu His Val Gln Lys Glu Ile		
275	280	285
Val Lys Glu Phe Phe Ile Lys Arg Ser Trp Ser Ser Leu Trp Leu Asp		
290	295	300
Leu Thr Leu Leu Pro Gly Lys Tyr His Asp Pro Leu Gln Pro Ser Xaa		
305	310	315 320
Val Ser Leu Ser Ser Phe Cys Leu Gly Asn Leu His Leu Leu Lys Asn		
325	330	335

Phe

<210> 336  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 336

Met Ser Asn Thr Asn Gly Ser Ala Ile Thr Glu Phe Ile Leu Leu Gly
1 5 10 15
Leu Thr Asp Cys Pro Glu Leu Gln Ser Leu Leu Phe Val Leu Phe Leu
20 25 30
Val Val Tyr Leu Val Thr Leu Leu Gly Asn Leu Gly Met Ile Met Leu
35 40 45
Met Arg Leu Asp Ser Arg Leu His Thr Pro Met Tyr Phe Phe Leu Thr
50 55 60
Asn Leu Ala Phe Val Asp Leu Cys Tyr Thr Ser Asn Ala Thr Pro Gln
65 70 75 80
Met Ser Thr Asn Ile Val Ser Glu Lys Thr Ile Ser Phe Ala Gly Cys
85 90 95
Phe Thr Gln Cys Tyr Ile Phe Ile Ala Leu Leu Leu Thr Glu Phe Tyr
100 105 110

Met Leu Ala Ala Met Ala Tyr Asp Arg Tyr Val Ala Ile  
 115 120 125

<210> 337  
 <211> 132  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys  
 1 5 10 15  
 Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp  
 20 25 30  
 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn  
 35 40 45  
 Ser Thr Asn Leu Lys Ala Phe Thr Ala Val Ser Cys Asn Val Gly Gly  
 50 55 60  
 Leu His Leu Gly Leu Gln Gly Pro Trp Glu Ser Ser Arg Thr Pro Arg  
 65 70 75 80  
 Pro Cys Leu Asn Cys Ala Ile Asn Phe Gln Ser Tyr His Glu Pro Thr  
 85 90 95  
 Ser Pro His Arg Ala Ser Val Ala Thr Met Trp Ala Ser Pro Val Gln  
 100 105 110  
 Thr Thr Glu His Ser Thr Met Thr Gly His Ser Tyr Lys Ser Arg Asp  
 115 120 125  
 His Gln Ser Cys  
 130

<210> 338  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Met Arg Leu Leu Val Leu Ser Ser Leu Leu Cys Ile Leu Leu Leu Cys  
 1 5 10 15  
 Phe Ser Ile Phe Ser Thr Glu Gly Lys Arg Arg Pro Ala Lys Ala Trp  
 20 25 30  
 Ser Gly Arg Arg Thr Arg Leu Cys Cys His Arg Val Pro Ser Pro Asn  
 35 40 45  
 Ser Thr Asn Leu Lys Gly His His Val Arg Leu Cys Lys Pro Cys Lys  
 50 55 60  
 Leu Glu Pro Glu Pro Arg Leu Trp Val Val Pro Gly Ala Leu Pro Gln

Val

&lt;210&gt; 339

&lt;211&gt; 173

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (128)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (153)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (160)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (166)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 339

Met	Ser	Gly	Leu	Ser	Arg	Pro	Leu	Leu	Leu	Ala	Val	Gly	Cys	Leu	Ala
1				5					10					15	

Ala	Leu	Cys	Val	Ile	Thr	Ala	Ala	Gly	Asn	Thr	Thr	Leu	Ala	Pro	Asn
			20					25					30		

Val	Thr	Thr	Ala	Ser	Ser	Pro	Pro	Pro	Thr	Thr	Thr	Thr	Val	Pro	Val
			35				40					45			

Ser	Pro	Thr	Thr	Leu	Ser	Pro	Leu	Pro	Val	Thr	Thr	Pro	Ala	Pro	Asp
	50					55					60				

Ile	Cys	Gly	Ser	Arg	Asn	Ser	Cys	Val	Ser	Cys	Val	Asp	Gly	Asn	Ala
65					70					75					80

Thr	Cys	Phe	Trp	Ile	Glu	Cys	Lys	Gly	Lys	Ser	Tyr	Cys	Ser	Asp	Asn
				85					90					95	

Ser	Thr	Ala	Gly	Asp	Cys	Lys	Val	Val	Asn	Thr	Thr	Gly	Phe	Cys	Ser
			100					105					110		

Ala	Lys	Thr	Thr	Thr	Leu	Pro	Ser	Thr	Thr	Thr	Thr	Ser	Thr	Thr	Xaa
			115				120					125			

Thr	Thr	Ser	Gly	Thr	Thr	Asn	Thr	Thr	Leu	Ser	Pro	Thr	Ile	Gln	Pro
	130					135					140				

Thr Arg Lys Ser Thr Phe Asp Ala Xaa Gln Phe His Trp Arg Asn Xaa  
 145 150 155 160

Pro Cys Leu Gly Val Xaa Ala Val Ile Phe Phe Leu Tyr  
 165 170

<210> 340  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 340  
 Met Ser Arg Cys Thr Trp Pro Ser Phe Ser Phe Phe Leu Ser Ser Phe  
 1 5 10 15

Leu Ser Phe Phe Arg Trp Ser Leu Ala Leu Ser Ala Arg Leu Glu Gly  
 20 25 30

Ser Gly Val Ile Leu Ala His Cys Asn Leu Arg Leu Pro Gly Ser Ser  
 35 40 45

Asp Ser Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly Met Ser  
 50 55 60

Arg Cys Ala Asp Val His Leu Val Ser Ile Ile Thr Lys Ala His Leu  
 65 70 75 80

Val Ser Trp Pro Leu Gln Met Asn Ile Leu Pro  
 85 90

<210> 341  
 <211> 139  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 341  
 Pro Pro Arg Pro Gly Cys Pro Val Pro Gln Trp Gly Cys Ser Ser Ala  
 1 5 10 15

Trp Pro Cys Pro Ser Gln Xaa His His His Pro Ala Asn Asp Cys Gln  
 20 25 30

Thr Val Gly Arg His Ser Pro Leu Asp Leu Asn Leu Lys Ser Pro Ser  
 35 40 45

Leu Pro Trp Leu Asp Pro Gly Asp Pro Phe Ala Leu Pro Ser Ala Pro  
 50 55 60

Ser Pro Thr Asp Leu Leu Cys Asp Leu Arg Pro Val Cys Arg Pro Leu  
 65 70 75 80

Trp Ala Ser Val Phe Pro Ala Met Lys Thr Ala Ile Ser Gln Ser Cys  
85 90 95

Val Lys Gln Lys Arg Lys Ala Gly Gly Arg Pro Trp Ala Asn Gly Arg  
100 105 110

Ala Leu Val Ile Ile Asn Ile Val Ala Ala Val Val Leu Leu Leu Leu  
115 120 125

Ile Asn Ile His Ile Ile Tyr Phe Ile Leu Thr  
130 135

<210> 342

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (82)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 342

Met Val Phe Pro Leu Leu Cys Val Phe Val Leu Ile Ser Ser Ser Leu  
1 5 10 15

Ala Gly Glu Glu Ala Ala Gly Leu Arg Val Gln Lys Leu Trp Pro Ala  
20 25 30

Val Xaa Leu Ser His Leu Pro Val Cys Trp Phe His Cys Ser Gly Ile  
35 40 45

Trp Ser Glu Val Ile Glu Leu Lys Val Gly Trp Glu Gly His Xaa Leu  
50 55 60

Pro Trp Gln Ala His Val Xaa Glu Phe Lys Val Val Glu His Leu Ile  
65 70 75 80

Ser Xaa Met Gly Ala Gly  
85



<210> 343  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens

<400> 343  
 Met His Cys His Cys Arg Val Trp Gly Phe Arg Trp Phe Leu Gly Asp  
   1                  5                  10                  15  
 Trp Glu Leu Leu Val Cys Met Cys Trp Val His Ala Ser Gly Ser Gln  
                   20                  25                  30  
 Leu Pro Gln Ala Arg Thr Gly Asn Pro Phe Pro Ser Lys Ala Ile Gly  
           35                  40                  45  
 Gly Ala Ser Leu Glu Ser Phe Ala Lys Ser Pro Arg Gln Asn Pro Arg  
   50                  55                  60  
 Val Gln Asp His Phe His Gly Ala His Val Phe Leu Phe Cys Arg Asn  
   65                  70                  75                  80  
 Phe Phe Leu Thr Ser Thr His His Asn Ser Glu Gly His Val Ser Ser  
                   85                  90                  95  
 Phe Leu Asp His Tyr Ser Glu Val Leu Gln Leu Tyr Ser Ser Gln Ser  
           100                  105                  110  
 Gly Leu Gly Leu Leu Gly  
           115

<210> 344  
 <211> 365  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (189)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (253)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (365)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 344  
 Met Phe Gly Thr Leu Leu Leu Tyr Cys Phe Phe Leu Ala Thr Val Pro  
   1                  5                  10                  15  
 Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu Lys Ser  
           20                  25                  30  
 Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu Pro Ala Arg

35					40					45					
Tyr	Phe	Tyr	Ile	Gln	Ala	Val	Asp	Thr	Ser	Gly	Asn	Lys	Phe	Thr	Ser
50					55					60					
Ser	Pro	Gly	Glu	Lys	Val	Phe	Gln	Val	Lys	Val	Ser	Ala	Pro	Glu	Glu
65					70					75					80
Gln	Phe	Thr	Arg	Val	Gly	Val	Gln	Val	Leu	Asp	Arg	Lys	Asp	Gly	Ser
				85					90					95	
Phe	Ile	Val	Arg	Tyr	Arg	Met	Tyr	Ala	Ser	Tyr	Lys	Asn	Leu	Lys	Val
			100					105					110		
Glu	Val	Lys	Phe	Gln	Gly	Gln	His	Val	Ala	Lys	Ser	Pro	Tyr	Ile	Leu
		115					120					125			
Lys	Gly	Pro	Val	Tyr	His	Glu	Asn	Cys	Asp	Cys	Pro	Leu	Gln	Asp	Ser
		130					135					140			
Ala	Ala	Trp	Leu	Arg	Glu	Met	Asn	Cys	Pro	Glu	Thr	Ile	Ala	Gln	Ile
145					150					155					160
Gln	Arg	Asp	Leu	Ala	His	Phe	Pro	Ala	Val	Asp	Pro	Glu	Lys	Ile	Ala
				165					170					175	
Val	Glu	Ile	Pro	Lys	Arg	Phe	Gly	Gln	Arg	Gln	Ser	Xaa	Cys	His	Tyr
			180					185					190		
Thr	Leu	Lys	Asp	Asn	Lys	Val	Tyr	Ile	Lys	Thr	His	Gly	Glu	His	Val
		195					200					205			
Gly	Phe	Arg	Ile	Phe	Met	Asp	Ala	Ile	Leu	Leu	Ser	Leu	Thr	Arg	Lys
		210					215					220			
Val	Lys	Met	Pro	Asp	Val	Glu	Leu	Phe	Val	Asn	Leu	Gly	Asp	Trp	Pro
225					230					235					240
Leu	Glu	Lys	Lys	Lys	Ser	Asn	Ser	Asn	Ile	His	Pro	Xaa	Phe	Ser	Trp
				245					250					255	
Cys	Gly	Ser	Thr	Asp	Ser	Lys	Asp	Ile	Val	Met	Pro	Thr	Tyr	Asp	Leu
			260					265					270		
Thr	Asp	Ser	Val	Leu	Glu	Thr	Met	Gly	Arg	Val	Ser	Leu	Asp	Met	Met
		275					280					285			
Ser	Val	Gln	Ala	Asn	Thr	Gly	Pro	Pro	Trp	Glu	Ser	Lys	Asn	Ser	Thr
		290					295					300			
Ala	Val	Trp	Arg	Gly	Arg	Asp	Ser	Arg	Lys	Glu	Arg	Leu	Glu	Leu	Val
305					310					315					320
Lys	Leu	Ser	Arg	Lys	His	Pro	Glu	Leu	Ile	Asp	Ala	Ala	Phe	Thr	Asn
				325					330					335	
Phe	Phe	Phe	Phe	Lys	His	Asp	Glu	Asn	Leu	Tyr	Gly	Pro	Ile	Val	Asn
			340					345					350		

Ile Phe His Phe Leu Ile Ser Ser Ser Ile Ser Ile Xaa  
 355 360 365

<210> 345  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 345  
 Met Thr Xaa Gln Leu Leu Phe Asn Ser Phe Leu Leu Ser Ser Val Ser  
 1 5 10 15

Gln Ile Arg Asp Gln Ile Ala Met Arg Glu Ser Val Trp Ser Gly Ser  
 20 25 30

Ile Ser Arg Gln Lys Glu Leu Val Thr Leu Trp Ile Ile Cys Leu Trp  
 35 40 45

Phe Arg His Leu Pro Leu Val Leu Ala Val Gly Asp Gly Trp  
 50 55 60

<210> 346  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 346  
 Cys Pro Ala Leu Phe Asn Ile Xaa Phe Glu Asn Ser Ile Leu Tyr Cys  
 1 5 10 15

Gln Ile

<210> 347  
 <211> 306  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Met Gly His Arg Thr Leu Val Leu Pro Trp Val Leu Leu Thr Leu Cys  
 1 5 10 15

Val Thr Ala Gly Thr Pro Glu Val Trp Val Gln Val Arg Met Glu Ala  
 20 25 30

Thr Glu Leu Ser Ser Phe Thr Ile Arg Cys Gly Phe Leu Gly Ser Gly  
           35                          40                          45  
 Ser Ile Ser Leu Val Thr Val Ser Trp Gly Gly Pro Asp Gly Ala Gly  
           50                          55                          60  
 Gly Thr Thr Leu Ala Val Leu His Pro Glu Arg Gly Ile Arg Gln Trp  
   65                          70                          75                          80  
 Ala Pro Ala Arg Gln Ala Arg Trp Glu Thr Gln Ser Ser Ile Ser Leu  
                           85                          90                          95  
 Ile Leu Glu Gly Ser Gly Ala Ser Ser Pro Cys Ala Asn Thr Thr Phe  
                   100                          105                          110  
 Cys Cys Lys Phe Ala Ser Phe Pro Glu Gly Ser Trp Glu Ala Cys Gly  
           115                          120                          125  
 Ser Leu Pro Pro Ser Ser Asp Pro Gly Leu Ser Ala Pro Pro Thr Pro  
   130                          135                          140  
 Ala Pro Ile Leu Arg Ala Asp Leu Ala Gly Ile Leu Gly Val Ser Gly  
  145                          150                          155                          160  
 Val Leu Leu Phe Gly Cys Val Tyr Leu Leu His Leu Leu Arg Arg His  
                   165                          170                          175  
 Lys His Arg Pro Ala Pro Arg Leu Gln Pro Ser Arg Thr Ser Pro Gln  
                   180                          185                          190  
 Ala Pro Arg Ala Arg Ala Trp Ala Pro Ser Gln Ala Ser Gln Ala Ala  
           195                          200                          205  
 Leu His Val Pro Tyr Ala Thr Ile Asn Thr Ser Cys Arg Pro Ala Thr  
   210                          215                          220  
 Leu Asp Thr Ala His Pro His Gly Gly Pro Ser Trp Trp Ala Ser Leu  
  225                          230                          235                          240  
 Pro Thr His Ala Ala His Arg Pro Gln Gly Pro Ala Ala Trp Ala Ser  
                   245                          250                          255  
 Thr Pro Ile Pro Ala Arg Gly Ser Phe Val Ser Val Glu Asn Gly Leu  
                   260                          265                          270  
 Tyr Ala Gln Ala Gly Glu Arg Pro Pro His Thr Gly Pro Gly Leu Thr  
           275                          280                          285  
 Leu Phe Pro Asp Pro Arg Gly Pro Arg Ala Met Glu Gly Pro Leu Gly  
   290                          295                          300  
 Val Arg  
 305

<210> 348  
 <211> 106  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (94)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (106)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 348

Met Gly Trp Ser Arg Gly Glu Gly Gln Gln Gly Trp Leu Ala Ala Ala  
1 5 10 15

Leu Cys Gly Trp Thr Arg Leu Gly Lys Ala Glu Gly Ser Glu Gly Trp  
20 25 30

Ala Thr Leu Glu Gly Cys Gln Val Pro Ser Leu Leu Gln Gly Asn Glu  
35 40 45

Gly Gly Ala Ala Leu Asn Arg His Met Pro Lys Gln Gly Ile Asp Ala  
50 55 60

Trp Ile Lys Leu Ala Thr Thr Arg Arg Ser Leu Phe Gly Ile Phe Gln  
65 70 75 80

Ile Leu Arg His Pro Ser Cys Asp Asp Gly Val Glu Arg Xaa Thr Gly  
85 90 95

Pro Leu Glu Phe Cys Xaa Leu His Arg Xaa  
100 105

<210> 349

<211> 137

<212> PRT

<213> Homo sapiens

<400> 349

Ala Leu Met Ser Arg Gln Arg Gly Pro Gly Glu Asn Pro Ala Pro Ser  
1 5 10 15

Val Ile Pro Leu His Phe Leu Pro Ser Phe Leu Leu Cys Leu Ala Lys  
20 25 30

Glu Gly Ser Ser Leu Gly Cys Pro Tyr Asn Ala Pro Gly Pro Arg Leu  
35 40 45

Ser Asn Lys Lys Pro Glu Pro Cys Gly Pro Val Ala Arg Ala Ser Ser  
50 55 60

Gly Arg Leu Pro Leu Leu Cys Leu Gly Pro Leu Ser Pro Ala Ser Arg

65		70		75		80
Ala Arg Val Arg	Leu Gln Ala Ser Gly	His Cys Pro Gly	Cys Asp Gly			
	85	90	95			
Thr Lys Ala Gly	Gly Ala Pro Gly	Thr Thr Gln Leu Gly	Phe Pro Pro			
	100	105	110			
Gly Phe Pro Ala	Gly Val Ser Gly	Ser Phe Ser Pro	Ala Leu Leu Gly			
	115	120	125			
Val Cys Arg Asn	Trp Pro Cys Ser	Pro				
	130	135				

<210> 350

<211> 102

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 350

Glu Thr Arg Thr	Leu Gln Pro Pro	Gly Pro Xaa Cys	Val Cys Arg Pro
1	5	10	15

Val Ala Thr Val	Arg Ala Val Met	Ala Pro Arg Gln	Val Glu His Gln
20	25	30	

Val Pro His Ser	Trp Ala Ser His	Gln Ala Phe Pro	Arg Gly Ser Gln
35	40	45	

Gly Ala Ser Pro	Gln Arg Cys Xaa	Glu Ser Ala Gly	Thr Gly Leu Val
50	55	60	

Leu Leu Ser Pro	Ser Leu His Thr	Val Leu Gly Glu	Asp Gly Cys Gly
65	70	75	80

Arg Cys Pro Cys	Arg Glu Val Thr	Val Glu Val Ala	Val Ala Cys Ser
85	90	95	

His Leu Trp Glu	Glu Lys
100	

<210> 351

<211> 133

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (131)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 351  
 Met Arg Leu Phe Val Ser Val Thr Val Leu Val Ile Cys Leu Ala Asp  
   1                  5                  10                  15  
 Leu Glu Glu Glu Ser Glu Ser Trp Asp Asn Ser Glu Ser Glu Glu Glu  
                   20                  25                  30  
 Glu Lys Ala Pro Val Leu Pro Glu Ser Thr Glu Gly Arg Glu Leu Thr  
                   35                  40                  45  
 Gln Gly Pro Ala Glu Ser Ser Ser Leu Ser Gly Cys Gly Ser Trp Gln  
                   50                  55                  60  
 Pro Arg Lys Leu Pro Val Phe Lys Ser Leu Arg His Met Arg Gln Val  
   65                  70                  75                  80  
 Gly Gly Arg Gly Thr Ala His Gln Glu Leu Arg Arg Arg Ala Asn His  
                   85                  90                  95  
 Gly Leu Ser Leu Pro Thr Arg Leu Ala Ser Gly Pro Ser Thr Phe Lys  
                   100                  105                  110  
 Thr Leu Gln Glu Val Thr Asp Ser Leu Leu Gly Gly Trp Leu Arg Ala  
                   115                  120                  125  
 Gln Gly Xaa Gly Gly  
                   130

<210> 352  
 <211> 136  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (96)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 352  
 Met Ile Leu Leu Ile Ile Leu Trp Ile Leu Arg Glu Ile Gln Ser Ile  
   1                  5                  10                  15  
 Tyr Ile Ile Gly Ile Phe Arg Asn Pro Phe Tyr Pro Lys Asp Val Gln  
                   20                  25                  30  
 Thr Val Thr Val Phe Phe Glu Lys Gln Thr Arg Leu Met Lys Ile Gly  
                   35                  40                  45

Ile Val Arg Arg Ile Leu Leu Thr Leu Val Ser Pro Phe Ala Met Ile  
 50 55 60  
 Ala Phe Leu Ser Leu Asp Ser Ser Leu Gln Gly Leu His Ser Val Ser  
 65 70 75 80  
 Val Cys Ile Gly Phe Thr Arg Ala Phe Arg Met Val Trp Gln Asn Xaa  
 85 90 95  
 Glu Xaa Ala Leu Leu Glu Thr Val Ile Val Ser Thr Val His Leu Ile  
 100 105 110  
 Ser Ser Thr Asp Ile Trp Trp Asn Arg Ser Leu Asp Thr Gly Leu Arg  
 115 120 125  
 Leu Leu Leu Val Gly Ile His Thr  
 130 135

<210> 353  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (133)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 353  
 Met Ile Leu Leu Ile Ile Leu Trp Ile Leu Arg Glu Ile Gln Ser Ile  
 1 5 10 15

Tyr Ile Ile Gly Ile Phe Arg Asn Pro Phe Tyr Pro Lys Asp Val Gln  
 20 25 30

Thr Val Thr Val Phe Phe Glu Lys Gln Thr Arg Leu Xaa Lys Ile Gly  
 35 40 45

Ile Val Arg Arg Ile Leu Leu Thr Leu Val Ser Pro Phe Ala Met Ile  
 50 55 60

Ala Phe Leu Ser Leu Asp Ser Ser Leu Gln Gly Leu His Ser Val Ser  
 65 70 75 80

Val Cys Ile Gly Phe Thr Arg Ala Phe Arg Met Val Trp Gln Asn Thr  
 85 90 95

Glu Asn Ala Leu Leu Glu Thr Val Ile Val Ser Thr Val His Leu Ile  
 100 105 110

Ser Ser Thr Asp Ile Trp Trp Asn Arg Ser Leu Asp Thr Gly Gly Thr  
 115 120 125



His Phe Val Asn Xaa Val  
130

<210> 354

<211> 303

<212> PRT

<213> Homo sapiens

<400> 354

Gly Arg Leu Arg Gly Ala Gly Arg Gly Val Gln Arg Ala Met Ala Ala  
1 5 10 15

Leu Arg Val Leu Leu Ser Cys Ala Arg Gly Pro Leu Arg Pro Pro Val  
20 25 30

Arg Cys Pro Ala Trp Arg Pro Phe Ala Ser Gly Ala Asn Phe Glu Tyr  
35 40 45

Ile Ile Ala Glu Lys Arg Gly Lys Asn Asn Thr Val Gly Leu Ile Gln  
50 55 60

Leu Asn Arg Pro Lys Ala Leu Asn Ala Leu Cys Asp Gly Leu Ile Asp  
65 70 75 80

Glu Leu Asn Gln Ala Leu Lys Ile Phe Glu Glu Asp Pro Ala Val Gly  
85 90 95

Ala Ile Val Leu Thr Gly Gly Asp Lys Ala Phe Ala Ala Gly Ala Asp  
100 105 110

Ile Lys Glu Met Gln Asn Leu Ser Phe Gln Asp Cys Tyr Ser Ser Lys  
115 120 125

Phe Leu Lys His Trp Asp His Leu Thr Gln Val Lys Lys Pro Val Ile  
130 135 140

Ala Ala Val Asn Gly Tyr Ala Phe Gly Gly Gly Cys Glu Leu Ala Met  
145 150 155 160

Met Cys Asp Ile Ile Tyr Ala Gly Glu Lys Ala Gln Phe Ala Gln Pro  
165 170 175

Glu Ile Leu Ile Gly Thr Ile Pro Gly Ala Gly Gly Thr Gln Arg Leu  
180 185 190

Thr Arg Ala Val Gly Lys Ser Leu Ala Met Glu Met Val Leu Thr Gly  
195 200 205

Asp Arg Ile Ser Ala Gln Asp Ala Lys Gln Ala Gly Leu Val Ser Lys  
210 215 220

Ile Cys Pro Val Glu Thr Leu Val Glu Glu Ala Ile Gln Cys Ala Glu  
225 230 235 240

Lys Ile Ala Ser Asn Ser Lys Ile Val Val Ala Met Ala Lys Glu Ser  
245 250 255

Val Asn Ala Ala Phe Glu Met Thr Leu Thr Glu Gly Ser Lys Leu Glu

260	265	270
Lys Lys Leu Phe Tyr Ser Thr Phe Ala Thr Asp Asp Arg Lys Glu Gly		
275	280	285
Met Thr Ala Phe Val Glu Lys Arg Lys Ala Asn Phe Lys Asp Gln		
290	295	300

<210> 355  
 <211> 118  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 355
Met Glu Met Ala Ser Ser Ala Gly Ser Trp Leu Ser Gly Cys Leu Ile
1 5 10 15
Pro Leu Val Phe Leu Arg Leu Ser Val His Val Ser Gly His Ala Gly
20 25 30
Asp Ala Gly Lys Phe His Val Ala Leu Leu Gly Gly Thr Ala Glu Leu
35 40 45
Leu Cys Pro Leu Ser Leu Trp Pro Gly Thr Val Pro Lys Xaa Val Arg
50 55 60
Trp Leu Arg Ser Pro Phe Pro Gln Arg Ser Gln Ala Val His Ile Phe
65 70 75 80
Arg Asp Gly Lys Asp Gln Asp Glu Asp Leu Met Pro Glu Tyr Lys Gly
85 90 95
Arg Thr Val Leu Val Arg Asp Ala Gln Glu Gly Ser Val Thr Leu Gln
100 105 110
Ile Leu Asp Val Arg Leu
115

<210> 356  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 356
Met Ser His Cys Cys Ser Leu Arg Val Asp Phe Ser Val Pro Leu Cys
1 5 10 15

Met Leu Leu Ser Pro Leu Leu Gly Met Ser Phe Ser Ala Cys Gln Thr  
20 25 30  
Pro Ser Lys Ser Ser Ser Asp Val Thr Phe Ser Leu Ser Thr Pro Asp  
35 40 45  
Pro Thr Pro Gln Ile Asp Leu Val Gln Pro Ser Ser Gly Phe Pro Gln  
50 55 60  
His Ser Val Gln Phe Glu Arg Ser Phe Ile Xaa Val Ile Ile Thr Phe  
65 70 75 80  
Phe Lys Asn Asn Phe Ile Phe Ile Asn Leu Ile Arg Leu  
85 90

<210> 357  
<211> 122  
<212> PRT  
<213> Homo sapiens

<400> 357  
Met Leu His Ser Leu Ala Leu Ala Glu Phe Cys Arg Asp Trp Gln His  
1 5 10 15  
Cys Val Pro Ala Cys Ser Pro Thr Val Ala Val Leu Phe Pro Arg Val  
20 25 30  
Gln Arg Arg Phe Phe Leu Cys Ala Leu Trp Leu Leu Arg Ala His Gly  
35 40 45  
Gly Gly Leu Gly Ser Ala Ile Gln Asp Cys Leu Phe Tyr Pro Leu His  
50 55 60  
Cys Leu Phe Gln Gln Tyr Glu Gly Thr Val Ile Ala His Met Ile Phe  
65 70 75 80  
Gly Ser Tyr Glu Gly Ala Phe Cys Val Gly Gly Cys Gln Ile Trp Cys  
85 90 95  
Ser Cys Arg Glu Asp Asn Arg Trp Arg Leu Leu Phe Gly His Ile Ala  
100 105 110  
Leu Pro Pro Ile Pro Ala Cys Phe Tyr Phe  
115 120

<210> 358  
<211> 95  
<212> PRT  
<213> Homo sapiens

<400> 358  
Met Gly Ala Ala Trp Pro Arg Arg Ala Arg Ser Trp Trp Ile Arg Thr  
1 5 10 15  
Ser Thr Ala Ser Ser Pro Ser Pro Ser Ser Ser Ile Thr Leu Leu Trp

			20						25							30			
Thr	Pro	Cys	Met	Trp	Ala	Glu	Ser	Trp	Ala	Cys	Cys	Ser	Ser	Pro	Thr				
		35					40					45							
Tyr	Thr	Arg	Thr	Gly	Lys	Cys	Ser	Thr	Asn	Arg	Thr	Pro	Arg	Trp	Pro				
	50					55					60								
Pro	Ala	Leu	Thr	Ser	Met	Pro	Arg	Thr	Ser	Thr	Phe	Gln	Gln	Trp	Leu				
65					70					75					80				
Ser	Ser	Pro	Thr	Phe	Trp	Trp	Leu	Ala	Cys	Ala	Gly	Asp	Pro	Gly					
				85					90					95					

<210> 359

<211> 129

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (52)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (110)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 359

Met	Asn	Lys	Arg	Ala	Lys	Phe	Glu	Leu	Arg	Lys	Pro	Leu	Val	Leu	Trp
1				5					10					15	

Ser	Leu	Thr	Leu	Ala	Val	Phe	Ser	Ile	Phe	Gly	Ala	Leu	Arg	Thr	Gly
		20						25					30		

Ala	Tyr	Met	Val	Tyr	Ile	Leu	Met	Thr	Lys	Gly	Leu	Lys	Gln	Ser	Val
		35					40					45			

Cys	Asp	Gln	Xaa	Phe	Tyr	Asn	Gly	Pro	Val	Ser	Lys	Phe	Trp	Ala	Tyr
	50					55					60				

Ala	Phe	Val	Leu	Ser	Lys	Ala	Pro	Glu	Leu	Gly	Asp	Thr	Ile	Phe	Ile
65					70					75					80

Ile	Leu	Arg	Lys	Gln	Lys	Leu	Ile	Phe	Leu	His	Trp	Tyr	His	His	Ile
			85						90					95	

Thr	Val	Leu	Leu	Tyr	Ser	Trp	Tyr	Ser	Tyr	Lys	Asp	Met	Xaa	Cys	Arg
		100						105					110		

Gly	Gly	Trp	Phe	Met	Thr	Met	Asn	Tyr	Gly	Val	His	Ala	Val	Met	Tyr
		115					120					125			

Ser

<210> 360  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 360  
 Met Gly Asp Lys Glu Ser Ser Ser Ser Lys Pro Ser Leu Ala Gly Trp  
     1                    5                    10                    15  
 Val Pro Leu Leu Leu Gly Gly Ala Phe Ser Cys Thr Pro Leu Pro Pro  
                     20                    25                    30  
 Arg Gly Glu Ser Gln Gln Pro Asn Gln Thr Ala Gln Val Val His Leu  
             35                    40                    45  
 Met Glu Thr Thr Gly Leu Lys His Val Leu Tyr Ser Pro Val Tyr Phe  
     50                    55                    60  
 Cys Cys Tyr Phe Glu Ala Trp Lys Phe Leu Phe Gly Gly Ser Trp Gly  
     65                    70                    75                    80  
 Tyr Ser Ser Gly

<210> 361  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (56)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 361  
 Thr Ser Asn Val Asn Ala Gln Asn His Gln Xaa Pro Thr His Leu Arg  
     1                    5                    10                    15

Val Asn Xaa Tyr Asp Val Xaa Phe Gly Val Asn Val Gly Asn Glu Thr  
20 25 30

Ala Met Lys Ala Pro Glu Leu Lys Asp Val Gly Lys Trp Ala Ala Val  
35 40 45

His Cys Pro Ala Leu Gln Gly Xaa Xaa Glu Ala Cys Leu Leu Ala Ser  
50 55 60

Gly Gly Gly Ala Arg Leu Gln Glu Gly Pro Ala Thr Cys His Leu Pro  
65 70 75 80

Cys Asp Gln Ala Lys Lys Trp Asn  
85

<210> 362

<211> 116

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 362

Met Ala Leu Asp Ile Ser Leu Phe Tyr Leu Xaa Tyr Phe Phe Phe Phe  
1 5 10 15

Leu Arg Trp Asn Phe Ser Leu Ile Ala Gln Ala Gly Val Gln Trp His  
20 25 30

Asp Leu Gly Ser Pro Gln Pro Pro Pro Gly Leu Lys Arg Phe Ser  
35 40 45

Phe Leu Gly Leu Pro Ser Ser Trp Asp Tyr Arg His Ala Pro Pro Cys  
50 55 60

Pro Ala Asn Phe Val Phe Leu Val Glu Met Gly Phe Leu His Val Gly  
65 70 75 80

Gln Ala Gly Leu Glu Leu Pro Thr Ser Gly Gly Pro Pro Ala Trp Ala  
85 90 95

Ser Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Trp Pro Glu  
100 105 110

Asn Ser His Phe  
115

<210> 363

<211> 139

<212> PRT

<213> Homo sapiens

<400> 363

Met Leu Ala Met Leu Leu Cys Met Leu Val Ser Val Phe Ile Leu Gly  
1 5 10 15  
Val Pro Tyr Arg Gly Ser Leu Leu Ile Leu Phe Phe Ile Ser Ser Leu  
20 25 30  
Phe Leu Leu Ser Thr Leu Gly Met Gly Leu Leu Ile Ser Thr Ile Thr  
35 40 45  
Arg Asn Gln Phe Asn Ala Ala Gln Val Ala Leu Asn Ala Ala Phe Leu  
50 55 60  
Pro Ser Ile Met Leu Ser Gly Phe Ile Phe Gln Ile Asp Ser Met Pro  
65 70 75 80  
Ala Val Ile Arg Ala Val Thr Tyr Ile Ile Pro Ala Arg Tyr Phe Val  
85 90 95  
Ser Thr Leu Gln Ser Leu Phe Leu Ala Gly Asn Ile Pro Val Val Leu  
100 105 110  
Val Val Asn Val Leu Phe Leu Ile Ala Ser Ala Val Met Phe Ile Gly  
115 120 125  
Leu Thr Trp Leu Lys Thr Lys Arg Arg Leu Asp  
130 135

<210> 364

<211> 82

<212> PRT

<213> Homo sapiens

<400> 364

Met Gly Trp Gln Leu Arg Ala Leu Ser Ala Val Gly Leu Trp Phe Thr  
1 5 10 15  
Ala Gly Asp Ser His Leu Ser Val Gln Val Cys Gly Gly Gly Pro Ala  
20 25 30  
Leu Thr Leu Trp His Leu Arg Ser Ser Thr Pro Thr Thr Ile Phe Pro  
35 40 45  
Ile Arg Ala Pro Gln Lys His Val Thr Phe Tyr Gln Asp Leu Val Arg  
50 55 60  
Pro Cys Val Ser Leu Leu Pro Pro Pro Leu Thr Leu Pro Phe Ser Pro  
65 70 75 80  
Asp Pro

<210> 365

<211> 59

<212> PRT

<213> Homo sapiens

<400> 365

Met Leu Cys His Ala Trp Leu Leu Leu Met Tyr Leu Phe Leu Glu Met  
1 5 10 15

Arg Ser His Cys Val Ala Gln Thr Gly Leu Glu Leu Leu Ala Ser Ser  
20 25 30

His Pro Pro Phe Ser Ala Ser Thr Val Ala Gly Ile Ser Gly Thr Cys  
35 40 45

His Cys Ala Leu Leu Ile Pro Phe Lys Ile Arg  
50 55

<210> 366

<211> 101

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (100)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 366

Met Asp His Met Ala Ser Asp Xaa Leu Glu Arg Leu Leu Val Ala Met  
1 5 10 15

Val Phe Pro Cys Ala Gln Glu Val Glu Asn Glu Ile Gly Phe Gly Glu  
20 25 30

His Leu Ala Leu Ala Arg Ser Gln Pro Pro Asp Phe Lys Ala Thr Phe  
35 40 45

Leu Lys Pro Lys Val Val Val Gly Gln Val Trp Trp Leu Met Cys Val  
50 55 60

Ile Pro Ala Leu Trp Glu Thr Glu Arg Val Asp His Leu Arg Ser Arg  
65 70 75 80

Ala Gln Asp Gln Pro Ala Gln Cys Gly Lys Thr Pro Ser Leu Leu Lys  
85 90 95

Ile Gln Thr Xaa Asn  
100

<210> 367

<211> 31

<212> PRT

<213> Homo sapiens



<400> 367

Met Ile His Leu Phe Leu Leu Pro Cys Pro Asn Cys Val Phe Leu Leu  
1 5 10 15  
Leu His Leu Phe Phe Gln Gln Cys Ala Ala Ser Trp Thr Thr Ser  
20 25 30

<210> 368

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 368

Ala Asn Thr Ser Thr Arg Ala Ala Leu Tyr Cys Leu Phe Leu Ser Phe  
1 5 10 15  
Ile Met Phe Ala Ser Val Leu Gln Ile Asn Pro Arg Ser Trp Leu Met  
20 25 30  
Lys Xaa Val Ile Thr Val Leu Ala Ala Cys Leu Glu Ser Glu Asn Gln  
35 40 45  
Asn Ala Gln Arg Ile Gly Ala Ala Ala Leu Trp Ala Leu Ile Tyr Asn  
50 55 60  
Tyr Gln Lys Ala Lys Thr Ala Leu Lys Ser Pro Ser Val Lys Arg Arg  
65 70 75 80  
Val Asp Glu Ala Tyr Ser Leu Ala Lys Lys Thr Phe Pro Asn Ser Glu  
85 90 95  
Ala Asn Pro Leu Asn Ala Tyr Tyr Leu Lys Cys Leu Glu Asn Leu Val  
100 105 110  
Gln Leu Leu Asn Ser Ser  
115

<210> 369

<211> 87

<212> PRT

<213> Homo sapiens

<400> 369

Met Thr Leu Leu Leu Thr Leu Glu Val Asp Pro Gly Thr Gln Gln Arg  
1 5 10 15  
Ala Gly Val Gly Ser Gln Gly Gln Ala Val Leu Pro Gly Leu Thr Cys  
20 25 30  
Phe Leu Leu Thr Phe Leu Leu Ala Ala Ser Val Tyr Ile Thr Gln Ser  
35 40 45

Ala Trp Asp Asn Val Glu Val Ala Glu Val Thr Gly Tyr Phe Met Phe  
50 55 60  
Leu His Gly Ile Phe Leu Phe Leu Ile Gly Arg Arg Arg Gln Lys Leu  
65 70 75 80  
Glu Glu Met Gly Leu Leu Ser  
85

<210> 370  
<211> 73  
<212> PRT  
<213> Homo sapiens

<400> 370  
Met Tyr Pro Val Tyr Thr Thr Ser Asp Phe Cys Ser Gly Thr Phe Val  
1 5 10 15  
Leu Ile Phe Ala Trp Leu Thr Leu Ser Glu Leu Val Arg Val Leu His  
20 25 30  
Arg Lys Ile Ile Asn Trp Phe Phe Ile Phe Leu Arg Arg Phe Tyr Tyr  
35 40 45  
Gly Glu Leu Ala Tyr Ala Asn Met Glu Thr Thr Met Cys His Leu Gln  
50 55 60  
Ala Gly Asp Pro Arg Gln Leu Val Val  
65 70

<210> 371  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 371  
Met Tyr Ser Pro Ser Leu Tyr Leu Leu Pro Ser Leu Pro Ser Leu Leu  
1 5 10 15  
Gln Leu Ser Leu Ser Arg Ser Pro Arg Phe Asn Lys Gly Leu Gln Arg  
20 25 30  
Ala Met Glu Lys Thr Met Lys Gly Ser Thr Ile Lys Ile Leu Leu Tyr  
35 40 45  
Phe Phe His His Ile Tyr Ala Ser Leu His Thr Phe Ile Pro Leu Pro  
50 55 60  
Asn Pro Ser Ile Phe Leu Cys Ile Ser Lys Tyr Ile Ala Asp Ile Ser  
65 70 75 80

Thr

<210> 372  
 <211> 61  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 372  
 Met Ser Lys Lys Ser Xaa Ser Tyr Lys Ile Arg Tyr Phe Ser Gln Ala  
   1                  5                  10                  15  
 Trp Gln Leu Met Pro Val Ile Leu Val Leu Trp Glu Ala Glu Ala Gly  
           20                  25                  30  
 Gly Ser Leu Glu Ala Arg Gln Asp His Ile Xaa Arg Leu Cys Leu Cys  
           35                  40                  45  
 Lys Lys Lys Lys Arg Ala Ala Pro Leu Phe Phe Phe Phe  
   50                  55                  60

<210> 373  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 373  
 Met Leu Cys Ser Ser Phe Leu Pro Leu Ser Thr Ala Ala Ile Trp Ala  
   1                  5                  10                  15  
 Ala Leu Phe Ser Gly Met Gly Ala Val Arg His Ser Pro Ser Glu Gly  
           20                  25                  30  
 Lys Arg Ser Leu Lys Ser Ser Arg Cys Leu His Phe Trp Pro Leu Pro  
   35                  40                  45  
 Thr Gly Cys Ser Ser Pro Pro Pro Pro Cys Asn Val Thr Thr Lys Asn  
   50                  55                  60  
 Val Ser Arg Cys Cys Gln Lys Ser Ser Arg Asp Gly Arg Val Arg Leu  
   65                  70                  75                  80  
 Pro Pro Arg

<210> 374  
 <211> 84  
 <212> PRT

<213> Homo sapiens

<400> 374

```
Met Gly Leu Arg Leu Pro Pro Pro Leu Cys Trp Phe Leu Cys Leu Thr
  1              5              10              15

Ser Thr Gly Gln Val Pro Met Ala Gln Ala Arg Ala Gly Val Gln Gly
      20              25              30

Pro Met Asp Gly Arg Met Pro Ser Asn Gly Cys Leu Pro Val Ser Pro
      35              40              45

Arg Thr Pro Tyr Gly Met Pro Tyr Leu Gly Ala Leu Trp Pro Cys Trp
      50              55              60

Pro Cys Ser Trp Gln Gly Arg Ser Thr Ser Arg His Pro Cys Gln Gln
      65              70              75              80

Asp Leu Ser Gly
```

<210> 375

<211> 143

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (99)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (107)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 375

```
Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1              5              10              15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys
      20              25              30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
      35              40              45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala
      50              55              60
```

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu  
65 70 75 80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro  
85 90 95

Xaa Val Xaa Gly Pro Met Gly Xaa Pro Gly Xaa Pro Glu Ile Pro Val  
100 105 110

Ser Val His Gly His Ser Ala Asp Pro Pro Ala Pro Cys Thr Gln Gln  
115 120 125

Pro Asp Gln Ile Gln Arg Gly Pro His Gln Pro Ala Gly Arg Leu  
130 135 140

<210> 376

<211> 245

<212> PRT

<213> Homo sapiens

<400> 376

Met Asp Val Gly Pro Ser Ser Leu Pro His Leu Gly Leu Lys Leu Leu  
1 5 10 15

Leu Leu Leu Leu Leu Leu Pro Leu Arg Gly Gln Ala Asn Thr Gly Cys  
20 25 30

Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp  
35 40 45

Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Pro Ala  
50 55 60

Ile Pro Gly Ile Arg Gly Pro Lys Gly Gln Lys Gly Glu Pro Gly Leu  
65 70 75 80

Pro Gly His Pro Gly Lys Asn Gly Pro Met Gly Pro Pro Gly Met Pro  
85 90 95

Gly Val Pro Gly Pro Met Gly Ile Pro Gly Glu Pro Gly Glu Glu Gly  
100 105 110

Arg Tyr Lys Gln Lys Phe Gln Ser Val Phe Thr Val Thr Arg Gln Thr  
115 120 125

His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg Phe Asn Ala Val Leu  
130 135 140

Thr Asn Pro Gln Gly Asp Tyr Asp Thr Ser Thr Gly Lys Phe Thr Cys  
145 150 155 160

Lys Val Pro Gly Leu Tyr Tyr Phe Val Tyr His Ala Ser His Thr Ala  
165 170 175

Asn Leu Cys Val Leu Leu Tyr Arg Ser Gly Val Lys Val Val Thr Phe  
180 185 190

Cys Gly His Thr Ser Lys Thr Asn Gln Val Asn Ser Gly Gly Val Leu  
 195 200 205  
 Leu Arg Leu Gln Val Gly Glu Glu Val Trp Leu Ala Val Asn Asp Tyr  
 210 215 220  
 Tyr Asp Met Val Gly Ile Gln Gly Ser Asp Ser Val Phe Ser Gly Phe  
 225 230 235 240  
 Leu Leu Phe Pro Asp  
 245

<210> 377  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

<400> 377  
 Met Cys Ala Met Ala Pro Leu Trp Ser Pro Leu Cys Pro Ser Ile Cys  
 1 5 10 15  
 Met Cys Ser Val Ser Leu Ala Cys Val Arg Val Arg Val Ser Ala Tyr  
 20 25 30  
 Ala Ser Thr His Trp Ala Leu Gly Cys Ser Gln Gly Lys Phe Asp Leu  
 35 40 45  
 Glu Arg Leu Ser Ser Pro Trp Asn Gln Asp Phe Leu Ser Pro Pro His  
 50 55 60  
 Pro Gly Pro Val Pro Pro Trp Leu Ser Gly Tyr Trp Gly Met Glu Thr  
 65 70 75 80  
 Leu Gly Glu

<210> 378  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

<400> 378  
 Met Arg Pro Gln Glu Leu Pro Arg Leu Ala Phe Pro Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser Ala Thr  
 20 25 30  
 Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala Arg Gln Leu Pro Ala  
 35 40 45  
 Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile His Trp Gly Val Phe  
 50 55 60  
 Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp Leu Tyr Leu Val Gly  
 65 70 75 80

Val Arg Ile Phe Val Glu Leu Glu Cys His Arg  
85 90

<210> 379  
<211> 336  
<212> PRT  
<213> Homo sapiens

<400> 379

Met Leu Glu Thr Gly Leu Phe Phe Leu Leu Ser Trp Ser Ala Phe Leu  
1 5 10 15  
Ser Ala Glu Ala Ala Gly Leu Thr Gly Ile Val Ala Val Leu Phe Cys  
20 25 30  
Gly Val Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Ser Asp Ser  
35 40 45  
Lys Ile Arg Thr Lys Gln Leu Phe Glu Phe Met Asn Phe Leu Ala Glu  
50 55 60  
Asn Val Ile Phe Cys Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln Asn  
65 70 75 80  
His Ile Phe Asn Ala Leu Phe Ile Leu Gly Ala Phe Leu Ala Ile Phe  
85 90 95  
Val Ala Arg Ala Cys Asn Ile Tyr Pro Leu Ser Phe Leu Leu Asn Leu  
100 105 110  
Gly Arg Lys Gln Lys Ile Pro Trp Asn Phe Gln His Met Met Met Phe  
115 120 125  
Ser Gly Leu Arg Gly Ala Ile Ala Phe Ala Leu Ala Ile Arg Asn Thr  
130 135 140  
Glu Ser Gln Pro Lys Gln Met Met Phe Thr Thr Thr Leu Leu Leu Val  
145 150 155 160  
Phe Phe Thr Val Trp Val Phe Gly Gly Gly Thr Thr Pro Met Leu Thr  
165 170 175  
Trp Leu Gln Ile Arg Val Gly Val Asp Leu Asp Glu Asn Leu Lys Glu  
180 185 190  
Asp Pro Ser Ser Gln His Gln Glu Ala Asn Asn Leu Asp Lys Asn Met  
195 200 205  
Thr Lys Ala Glu Ser Ala Arg Leu Phe Arg Met Trp Tyr Ser Phe Asp  
210 215 220  
His Lys Tyr Leu Lys Pro Ile Leu Thr His Ser Gly Pro Pro Leu Thr  
225 230 235 240  
Thr Thr Leu Pro Glu Trp Cys Gly Pro Ile Ser Arg Leu Leu Thr Ser  
245 250 255

Pro	Gln	Ala	Tyr	Gly	Glu	Gln	Leu	Lys	Glu	Asp	Asp	Val	Glu	Cys	Ile
			260					265					270		
Val	Asn	Gln	Asp	Glu	Leu	Ala	Ile	Asn	Tyr	Gln	Glu	Gln	Ala	Ser	Ser
		275					280					285			
Pro	Cys	Ser	Pro	Pro	Ala	Arg	Leu	Gly	Leu	Asp	Gln	Lys	Ala	Ser	Pro
	290					295					300				
Gln	Thr	Pro	Gly	Lys	Glu	Asn	Ile	Tyr	Glu	Gly	Asp	Leu	Gly	Leu	Gly
305					310					315					320
Gly	Tyr	Glu	Leu	Lys	Leu	Glu	Gln	Thr	Leu	Gly	Gln	Ser	Gln	Leu	Asn
				325					330					335	



<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (68)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 380  
 Met Gln Trp Leu Xaa Ile Thr Pro Arg Leu Phe Tyr Phe Pro Leu Leu  
   1                  5                  10                  15  
  
 Leu Leu Xaa Leu Gly Ser Xaa Lys Xaa Leu Xaa Ile Ser Ile Leu Xaa  
                   20                  25                  30  
  
 Xaa Gly Xaa Val Leu Leu His Xaa Ser Xaa Arg Met His Gly Xaa Asn  
           35                  40                  45  
  
 Met Xaa Xaa Gln Ser Leu Xaa Phe Lys Val Lys Leu Ser Ser Pro Leu  
   50                  55                  60  
  
 Pro Ser Gln Xaa Leu Gly Leu Arg  
   65                  70  
  
 <210> 381  
 <211> 75

<212> PRT  
 <213> Homo sapiens

<400> 381  
 Met Gly Ala Ser Leu Cys Leu Thr Gln Leu Leu Leu Leu Gly Lys  
   1                  5                  10                  15  
 Gly Gly Leu Gly Gln Ala Ser Ile Pro Leu Val Lys Thr Pro Ala Gly  
           20                  25                  30  
 His Gln Ala Phe Trp Thr Arg Thr His Thr His Thr His Thr His Thr  
       35                  40                  45  
 His Lys Thr Ser Gln Gln Ala Ser Cys Ser Asp Leu Ser Ser Arg Val  
       50                  55                  60  
 Thr Ser Ala Ala Pro Pro Ser His Pro Phe Leu  
   65                  70                  75

<210> 382  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 382  
 Met Cys Val His Thr Cys Val Cys Met Cys Val His Thr Cys Val Cys  
   1                  5                  10                  15  
 Val His Ala Cys Val Trp Ala His Val Cys Met Cys Val Cys Glu Cys  
           20                  25                  30  
 Val Cys Trp Gly Gly Gly Met Ala Leu Gly Lys Val Cys Pro Gly Trp  
       35                  40                  45  
 Lys Pro His Ser Leu Pro Ser Ala Trp Arg Trp Ala Cys Ala Trp Arg  
       50                  55                  60  
 Pro Ile Ala Arg Arg Leu Arg Pro Thr Gly Ala Thr Xaa Thr Val Pro  
   65                  70                  75                  80  
 Leu

<210> 383  
 <211> 117  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (116)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 383

Met	His	Pro	Pro	Pro	Gly	Val	Trp	Leu	Leu	His	Leu	His	Thr	Pro	Leu	
1				5				10						15		
Arg	Gly	Phe	Cys	Leu	Pro	Leu	Pro	Leu	Arg	Ser	Gln	Glu	Ala	Val	Pro	
			20					25					30			
Gly	Arg	Gly	Arg	Arg	His	Leu	Ser	Pro	Gln	Leu	Leu	Thr	Pro	His	Pro	
			35				40					45				
Leu	Thr	Ser	Ser	Pro	Phe	Val	Lys	Tyr	Thr	Gln	Asp	Glu	Thr	Cys	Thr	
	50					55					60					
Gln	Trp	Leu	Thr	Ala	Ala	Arg	Phe	Val	Thr	Ala	Arg	Gly	Gly	Glu	His	
65					70					75					80	
Arg	Thr	Pro	Ser	Glu	Gly	Glu	Gly	Ile	Ser	Thr	Ala	Pro	Pro	Pro	Cys	
				85					90						95	
Trp	Asn	Glu	Thr	Gln	Pro	Gln	Gly	Gly	Ala	Thr	Ser	Asp	Pro	Gly	His	
		100						105					110			
Ser	Ala	Asp	Xaa	Pro												
		115														

<210> 384

<211> 167

<212> PRT

<213> Homo sapiens

<400> 384

Pro	Gly	Pro	Gly	Ser	Cys	Leu	Leu	His	Leu	Ser	Ser	Gln	Asn	Leu	Trp	
1				5					10					15		
Gln	Pro	Glu	Phe	Phe	Asn	Ser	Leu	Ser	Leu	Ser	Leu	His	Gln	Leu	His	
			20					25					30			
Ser	Arg	Ile	Asn	Arg	Lys	Val	Ala	Ala	Arg	Pro	Ala	Gly	Pro	Leu	Val	
		35					40					45				
Ser	Leu	Pro	Leu	His	Leu	Gly	Val	Ser	Gln	Pro	Leu	Pro	Gly	Ser	Pro	
	50					55					60					
Gln	Glu	Ala	Met	Ala	Pro	Leu	Ala	Phe	Val	Cys	Leu	Ser	Gly	Gly	Ala	
65					70					75					80	
Asp	Ser	Arg	Gly	Thr	Cys	Pro	Ser	Ala	Ala	Glu	Trp	Pro	Pro	Cys	Pro	
				85					90					95		
Ala	Lys	Pro	Asp	Val	His	Ser	Pro	Gly	Ala	Pro	Pro	Pro	Pro	Leu	Ser	
		100						105						110		
Cys	Pro	Gly	Pro	Trp	Gly	Thr	Asn	Ser	Pro	Ile	Ser	Thr	Arg	Ala	Leu	
	115						120					125				
Ala	His	His	His	Gly	Thr	Leu	Pro	Pro	Arg	Pro	Ser	Pro	Pro	Leu	Leu	

130

135

140

Cys Pro Ser Trp Pro His Leu Ala Ser Pro Gly Gly Glu Leu Ser Pro  
 145 150 155 160

Ala Val Pro Thr Leu Pro Pro  
 165

&lt;210&gt; 385

&lt;211&gt; 277

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 385

Arg Arg Val Val Ile Asp Pro Gln Glu Lys Pro Ser Glu Glu Pro Leu  
 1 5 10 15

Gly Asp Arg Arg Thr Val Ile Asp Lys Cys Ser Pro Pro Leu Glu Phe  
 20 25 30

Leu Asp Asp Ser Asp Ser His Leu Glu Ile Gln Lys His Lys Asp Arg  
 35 40 45

Glu Val Val Met Glu His Pro Ser Ser Gly Ser Asp Trp Ser Asp Val  
 50 55 60

Glu Glu Ile Ser Thr Val Arg Phe Ser Gln Glu Glu Pro Val Ser Leu  
 65 70 75 80

Lys Pro Ser Ala Val Pro Glu Pro Ser Ser Phe Thr Thr Asp Tyr Val  
 85 90 95

Met Tyr Pro Pro His Leu Tyr Ser Ser Pro Trp Cys Asp Tyr Ala Ser  
 100 105 110

Tyr Trp Thr Ser Ser Pro Lys Pro Ser Ser Tyr Pro Ser Thr Gly Ser  
 115 120 125

Ser Ser Asn Asp Ala Ala Gln Val Gly Lys Ser Ser Arg Ser Arg Met  
 130 135 140

Ser Asp Tyr Ser Pro Asn Ser Thr Gly Ser Val Gln Asn Thr Ser Arg  
 145 150 155 160

Asp Met Glu Ala Ser Glu Glu Gly Trp Ser Gln Asn Ser Arg Ser Phe  
 165 170 175

Arg Phe Ser Arg Ser Ser Glu Glu Arg Glu Val Lys Glu Lys Arg Thr  
 180 185 190

Phe Gln Glu Glu Met Pro Pro Arg Pro Cys Gly Gly His Ala Ser Ser  
 195 200 205

Ser Leu Pro Lys Ser His Leu Glu Pro Ser Leu Glu Glu Gly Phe Ile  
 210 215 220

Asp Thr His Cys His Leu Asp Met Leu Tyr Ser Lys Leu Ser Phe Gln  
 225 230 235 240

Gly Thr Phe Thr Lys Phe Arg Lys Ile Tyr Ser Ser Ser Phe Pro Lys  
245 250 255

Glu Phe Gln Gly Cys Ile Ser Asp Phe Cys Val Arg Gly Gly Lys Ala  
260 265 270

Glu Met Thr Trp Lys  
275

<210> 386

<211> 172

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (153)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 386

Trp Phe Ala Ala Leu Val Lys Cys Leu Pro Val Leu Cys Leu Ala Gly  
1 5 10 15

Phe Leu Trp Val Met Ser Pro Ser Gly Gly Tyr Thr Gln Leu Leu Gln  
20 25 30

Gly Ala Leu Val Cys Ser Ala Val Gly Asp Ala Cys Leu Ile Trp Pro  
35 40 45

Ala Ala Phe Val Pro Gly Met Ala Ala Phe Ala Thr Ala His Leu Leu  
50 55 60

Tyr Val Trp Ala Phe Gly Phe Ser Pro Leu Gln Pro Gly Leu Leu Leu  
65 70 75 80

Leu Ile Ile Leu Ala Pro Gly Pro Tyr Leu Ser Leu Val Leu Gln His  
85 90 95

Leu Glu Pro Asp Met Val Leu Pro Val Ala Ala Tyr Gly Leu Ile Leu  
100 105 110

Met Ala Met Leu Trp Arg Gly Leu Ala Gln Gly Gly Ser Ala Gly Trp  
115 120 125

Gly Ala Leu Leu Phe Thr Leu Ser Asp Gly Val Leu Ala Trp Asp Thr  
130 135 140

Phe Ala Gln Pro Leu Pro His Ala Xaa Leu Val Ile Met Thr Thr Tyr  
145 150 155 160

Tyr Ala Ala Gln Leu Leu Ile Thr Leu Ser Ala Leu  
165 170

<210> 387

<211> 156

<212> PRT

<213> Homo sapiens

<400> 387

Arg Pro Gly Ala Asp Cys Glu Val Cys Lys Glu Phe Leu Asn Arg Phe  
 1 5 10 15  
 Tyr Lys Ser Leu Ile Asp Arg Gly Val Asn Phe Ser Leu Asp Thr Ile  
 20 25 30  
 Glu Lys Glu Leu Ile Ser Phe Cys Leu Asp Thr Lys Gly Lys Glu Asn  
 35 40 45  
 Arg Leu Cys Tyr Tyr Leu Gly Ala Thr Lys Asp Ala Ala Thr Lys Ile  
 50 55 60  
 Leu Ser Glu Val Thr Arg Pro Met Ser Val His Met Pro Ala Met Lys  
 65 70 75 80  
 Ile Cys Glu Lys Leu Lys Lys Leu Asp Ser Gln Ile Cys Glu Leu Lys  
 85 90 95  
 Tyr Glu Lys Thr Leu Asp Leu Ala Ser Val Asp Leu Arg Lys Met Arg  
 100 105 110  
 Val Ala Glu Leu Lys Gln Ile Leu His Ser Trp Gly Glu Glu Cys Arg  
 115 120 125  
 Ala Cys Ala Glu Lys Thr Asp Tyr Val Asn Leu Ile Gln Glu Leu Ala  
 130 135 140  
 Pro Lys Tyr Ala Ala Thr His Pro Lys Thr Glu Leu  
 145 150 155  
 <210> 388  
 <211> 268  
 <212> PRT  
 <213> Homo sapiens  
 <400> 388  
 Phe Phe Ser Val Tyr Ala Gln Leu Trp Leu Val Leu Leu Tyr Gly His  
 1 5 10 15  
 Lys Arg Leu Ser Tyr Gln Thr Val Phe Leu Ala Leu Cys Leu Leu Trp  
 20 25 30  
 Ala Ala Leu Arg Thr Thr Leu Phe Ser Phe Tyr Phe Arg Asp Thr Pro  
 35 40 45  
 Arg Ala Asn Arg Leu Gly Pro Leu Pro Phe Trp Leu Leu Tyr Cys Cys  
 50 55 60  
 Pro Val Cys Leu Gln Phe Phe Thr Leu Thr Leu Met Asn Leu Tyr Phe  
 65 70 75 80  
 Ala Gln Val Val Phe Lys Ala Lys Val Lys Arg Arg Pro Glu Met Ser  
 85 90 95  
 Arg Gly Leu Leu Ala Val Arg Gly Ala Phe Val Gly Ala Ser Leu Leu  
 100 105 110  
 Phe Leu Leu Val Asn Val Leu Cys Ala Val Leu Ser His Arg Arg Arg  
 115 120 125

Ala Gln Pro Trp Ala Leu Leu Leu Val Arg Val Leu Val Ser Asp Ser  
 130 135 140  
 Leu Phe Val Ile Cys Ala Leu Ser Leu Ala Ala Cys Leu Cys Leu Val  
 145 150 155 160  
 Ala Arg Arg Ala Pro Ser Thr Ser Ile Tyr Leu Glu Ala Lys Gly Thr  
 165 170 175  
 Ser Val Cys Gln Ala Ala Ala Met Gly Gly Ala Met Val Leu Leu Tyr  
 180 185 190  
 Ala Ser Arg Ala Cys Tyr Asn Leu Thr Ala Leu Ala Leu Ala Pro Gln  
 195 200 205  
 Ser Arg Leu Asp Thr Phe Asp Tyr Asp Trp Tyr Asn Val Ser Asp Gln  
 210 215 220  
 Ala Asp Leu Val Asn Asp Leu Gly Asn Lys Gly Tyr Leu Val Phe Gly  
 225 230 235 240  
 Leu Ile Leu Phe Val Trp Glu Leu Leu Pro Thr Thr Leu Leu Val Gly  
 245 250 255  
 Phe Phe Arg Val His Arg Pro Pro Gln Asp Leu Ser  
 260 265  
 <210> 389  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens  
 <400> 389  
 Ser Glu Lys Arg Tyr Pro Gln Pro Arg Gly Gln Lys Lys Lys Lys Val  
 1 5 10 15  
 Val Lys Tyr Gly Met Gly Gly Met Ile Ile Val Leu Leu Ile Cys Ile  
 20 25 30  
 Val Trp Phe Pro Leu Leu Phe Met Ser Leu Ile Lys Ser Val Ala Gly  
 35 40 45  
 Val Ile Asn Gln Pro Leu Asp Val Ser Val Thr Ile Thr Leu Gly Gly  
 50 55 60  
 Tyr Gln Pro Ile Phe Thr Met Ser Ala Gln Gln Ser Gln Leu Lys Ile  
 65 70 75 80  
 Met Asp Gln Gln Ser Phe Asn Lys Phe Ile Gln Ala Phe Ser Arg Asp  
 85 90 95  
 Thr Gly Ala Met Gln Phe Leu Glu Asn Tyr Glu Lys Glu Asp Ile Thr  
 100 105 110  
 Val Ala Glu Leu Glu Gly Asn Ser Asn Ser Leu Trp Thr Ile Ser Pro  
 115 120 125  
 Pro Ser Lys Gln Lys Met Ile His Glu Leu Leu Asp Pro Asn Ser Ser  
 130 135 140

Phe Ser Val Val Phe Ser Trp Ser Ile Gln Arg Asn Leu Ser Leu Gly  
145 150 155 160  
Ala Lys Ser Glu Ile Ala Thr Asp Lys Leu Ser Phe Pro Leu Lys Asn  
165 170 175  
Ile Thr Arg Lys Asn Ile Ala Lys Met Ile Ala Gly Asn Ser Thr Glu  
180 185 190  
Ser Ser Lys Thr Pro Val Thr Ile Glu Lys Ile Tyr Pro Tyr Tyr Val  
195 200 205  
Lys Ala Pro Ser Asp Ser Asn Ser Lys Pro Ile Lys Gln Leu  
210 215 220  
<210> 390  
<211> 267  
<212> PRT  
<213> Homo sapiens  
<400> 390  
Thr Asp Gly Glu Ser Arg Phe Tyr Ser Leu Gly His Leu Ser Ile Gln  
1 5 10 15  
Arg Ala Ala Leu Val Val Leu Glu Asn Tyr Tyr Lys Asp Phe Thr Ile  
20 25 30  
Tyr Asn Pro Asn Leu Leu Thr Ala Ser Lys Phe Arg Ala Ala Lys His  
35 40 45  
Met Ala Gly Leu Lys Val Tyr Asn Val Asp Gly Pro Ser Asn Asn Ala  
50 55 60  
Thr Gly Gln Ser Arg Ala Met Ile Ala Ala Ala Arg Arg Arg Asp  
65 70 75 80  
Ser Ser His Asn Glu Leu Tyr Tyr Glu Glu Ala Glu His Glu Arg Arg  
85 90 95  
Val Lys Lys Arg Lys Ala Arg Leu Val Val Ala Val Glu Glu Ala Phe  
100 105 110  
Ile His Ile Gln Arg Leu Gln Ala Glu Glu Gln Gln Lys Ala Pro Gly  
115 120 125  
Glu Val Met Asp Pro Arg Glu Ala Ala Gln Ala Ile Phe Pro Ser Met  
130 135 140  
Ala Arg Ala Leu Gln Lys Tyr Leu Arg Ile Thr Arg Gln Gln Asn Tyr  
145 150 155 160  
His Ser Met Glu Ser Ile Leu Gln His Leu Ala Phe Cys Ile Thr Asn  
165 170 175  
Gly Met Thr Pro Lys Ala Phe Leu Glu Arg Tyr Leu Ser Ala Gly Pro  
180 185 190  
Thr Leu Gln Tyr Asp Lys Asp Arg Trp Leu Ser Thr Gln Trp Arg Leu  
195 200 205



Val Ser Asp Glu Ala Leu Thr Asn Gly Leu Arg Asp Gly Ile Val Phe  
 210 215 220

Val Leu Lys Cys Leu Asp Phe Ser Leu Val Val Asn Val Lys Lys Ile  
 225 230 235 240

Pro Phe Ile Ile Leu Ser Glu Glu Phe Ile Asp Pro Lys Ser His Lys  
 245 250 255

Phe Val Leu Arg Leu Gln Ser Glu Thr Ser Val  
 260 265

<210> 391  
 <211> 97  
 <212> PRT  
 <213> Homo sapiens

<400> 391  
 Gln Ser Cys Tyr Val Ala Gln Ala Gly Val Gln Trp His Asn His Ser  
 1 5 10 15

Ser Leu Gln Pro Leu Ser Pro Gly Phe Lys Arg Phe Phe Cys Leu Asn  
 20 25 30

Leu Pro Ser Ser Trp Asp Tyr Arg His Met Ala Thr Cys Pro Trp Leu  
 35 40 45

Ile Phe Val Phe Leu Val Glu Met Glu Phe Arg His Val Gly Gln Ala  
 50 55 60

Gly Leu Gly Leu Leu Thr Ser Ser Asp Leu Pro Ala Leu Ala Phe Gln  
 65 70 75 80

Ser Ala Gly Ile Thr Gly Leu Ser His His Ala Trp Pro Gly Arg Phe  
 85 90 95

Leu

<210> 392  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 392

Phe Phe Val Phe Leu Val Glu Met Gly Phe Arg His Val Gly Gln Xaa  
 1 5 10 15

Gly Leu Glu Leu Leu Thr Ser Gly Tyr Pro Ser Xaa Leu Thr Ser Gln  
 20 25 30

Ser Ala Gly Ile Thr Gly Met Ser His His Xaa Arg  
 35 40

<210> 393  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 393  
 Gln Gly Ser Cys Leu Ser Leu Pro Ser Ser Trp Gly Tyr Arg Cys Pro  
 1 5 10 15

Pro Pro His Pro Gly Asn Phe Leu Tyr  
 20 25

<210> 394  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 394  
 Met Phe Phe Cys Phe Xaa Arg Trp Glu Pro Cys Ser Val Thr Gln Ala  
 1 5 10 15

Gly Val Gln Trp Cys Asp Leu Ser Ser  
 20 25

<210> 395  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 395  
 Pro Ala Ser Ala Ser Arg Val Ala Gly Val Thr Gly Ala Pro His His  
 1 5 10 15

Thr Gln

<210> 396  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 396

Leu Xaa Lys Cys Trp Asp Tyr Arg Tyr Glu Pro Pro Arg Pro Ala  
1 5 10 15

<210> 397

<211> 157

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (141)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 397

Val Asn Pro Glu Val Trp Met Asn Thr Ser Glu Ile Ile Ile Tyr Asn  
1 5 10 15

Gly Tyr Pro Ser Glu Glu Tyr Glu Val Thr Thr Glu Asp Gly Tyr Ile  
20 25 30

Leu Leu Val Asn Arg Ile Pro Tyr Gly Arg Thr His Ala Arg Ser Thr  
35 40 45

Gly Pro Arg Pro Val Val Tyr Met Gln His Ala Leu Phe Ala Asp Asn  
50 55 60

Ala Tyr Trp Leu Glu Asn Tyr Ala Asn Gly Ser Leu Gly Phe Leu Leu  
65 70 75 80

Ala Asp Ala Gly Tyr Asp Val Trp Met Gly Asn Ser Arg Gly Asn Thr  
85 90 95

Trp Ser Arg Arg His Lys Thr Leu Ser Glu Thr Asp Glu Lys Phe Trp  
100 105 110

Ala Phe Ser Phe Asp Glu Met Ala Lys Tyr Asp Leu Pro Gly Val Ile  
115 120 125

Asp Phe Ile Val Asn Lys Thr Gly Gln Glu Lys Leu Xaa Phe Ile Gly  
130 135 140

His Ser Leu Gly Thr Thr Ile Gly Phe Val Ala Phe Ser  
145 150 155

<210> 398

<211> 16

<212> PRT

<213> Homo sapiens

<400> 398

Met Pro Glu Leu Ala Gln Arg Ile Lys Met Asn Phe Ala Leu Gly Pro  
1 5 10 15

<210> 399

<211> 75

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (72)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 399

Phe	Phe	Leu	Arg	Gln	Cys	Leu	Ile	Leu	Leu	Pro	Arg	Leu	Glu	Cys	Ser
1				5					10					15	

Gly	Met	Ser	Ile	Thr	His	Cys	Ser	Leu	Asp	Leu	Leu	Gly	Ser	Ser	Asn
			20					25					30		

Pro	Pro	Thr	Ser	Val	Ser	His	Val	Val	Trp	Thr	Thr	Gly	Thr	His	His
		35					40					45			

Arg	Asp	Trp	Leu	Ile	Phe	Xaa	Phe	Phe	Val	Glu	Met	Glu	Ser	His	Phe
	50					55					60				

Phe	Ala	Gln	Ala	Gly	Trp	Ser	Xaa	Leu	Asn	Ser
65					70					75

<210> 400

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 400

Ile	Lys	Phe	Leu	Gly	Xaa	Ser	Asp	Pro	Pro	Ile	Leu	Cys	Ser	Gln	Ser
1				5					10					15	

Ala	Gly	Ile	Thr	Gly	Met	Ser	His	Cys	Ala	His	Pro
		20						25			

<210> 401

<211> 237

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (226)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 401

Lys	Ser	Ser	Asp	Gly	Pro	Gly	Ala	Ala	Gln	Glu	Pro	Thr	Trp	Leu	Thr
1				5					10					15	

Asp	Val	Pro	Ala	Ala	Met	Glu	Phe	Ile	Ala	Ala	Thr	Glu	Val	Ala	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

20

25

30

Ile Gly Phe Phe Gln Asp Leu Glu Ile Pro Ala Val Pro Ile Leu His  
 35 40 45

Ser Met Val Gln Lys Phe Pro Gly Val Ser Phe Gly Ile Ser Thr Asp  
 50 55 60

Ser Glu Val Leu Thr His Tyr Asn Ile Thr Gly Asn Thr Ile Cys Leu  
 65 70 75 80

Phe Arg Leu Val Asp Asn Glu Gln Leu Asn Leu Glu Asp Glu Asp Ile  
 85 90 95

Glu Ser Ile Asp Ala Thr Lys Leu Ser Arg Phe Ile Glu Ile Asn Ser  
 100 105 110

Leu His Met Val Thr Glu Tyr Asn Pro Val Ala Ser Pro Glu Tyr Glu  
 115 120 125

Glu Asn Met His Arg Tyr Gln Lys Ala Ala Lys Leu Phe Gln Gly Lys  
 130 135 140

Ile Leu Phe Ile Leu Val Asp Ser Gly Met Lys Glu Asn Gly Lys Val  
 145 150 155 160

Ile Ser Phe Phe Lys Leu Lys Glu Ser Gln Leu Pro Ala Leu Ala Ile  
 165 170 175

Tyr Gln Thr Leu Asp Asp Glu Trp Asp Thr Leu Pro Thr Ala Glu Val  
 180 185 190

Ser Val Glu His Val Gln Asn Phe Cys Asp Gly Phe Leu Ser Gly Lys  
 195 200 205

Leu Leu Lys Glu Asn Arg Glu Ser Glu Gly Lys Thr Pro Lys Val Glu  
 210 215 220

Leu Xaa Leu Leu Leu Gly Thr Thr Tyr Gly Gln Val Ser  
 225 230 235

<210> 402

<211> 209

<212> PRT

<213> Homo sapiens

<400> 402

Asp Gly Ala Asp Val Asn Tyr Gln Ser Lys Glu Gly Lys Ser Pro Leu  
 1 5 10 15

His Met Ala Ala Ile His Gly Arg Phe Thr Arg Ser Gln Ile Leu Ile  
 20 25 30

Gln Asn Gly Ser Glu Ile Asp Cys Ala Asp Lys Phe Gly Asn Thr Pro  
 35 40 45

Leu His Val Ala Ala Arg Tyr Gly His Glu Leu Leu Ile Ser Thr Leu  
 50 55 60

Met Thr Asn Gly Ala Asp Thr Ala Arg Arg Gly Ile His Asp Met Phe

65		70		75		80
Pro Leu His Leu Ala Val Leu Phe Gly Phe Ser Asp Cys Cys Arg Lys						
	85			90		95
Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile Val Ser Ser Leu Ser Asn						
	100			105		110
Glu His Val Leu Ser Ala Gly Phe Asp Ile Asn Thr Pro Asp Asn Leu						
	115			120		125
Gly Arg Thr Cys Leu His Ala Ala Ala Ser Gly Gly Asn Val Glu Cys						
	130			135		140
Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp Leu Arg Arg Arg Asp Lys						
	145			150		155
						160
Phe Gly Arg Thr Pro Leu His Tyr Ala Ala Ala Asn Gly Ser Tyr Gln						
				165		170
						175
Cys Ala Val Thr Leu Val Thr Ala Gly Ala Gly Val Asn Glu Ala Asp						
				180		185
						190
Cys Lys Gly Cys Ser Pro Leu His Tyr Ala Ala Ala Ser Asp Thr Tyr						
				195		200
						205

Arg

<210> 403  
 <211> 192  
 <212> PRT  
 <213> Homo sapiens

<400> 403
Lys Ser Pro Leu His Met Ala Ala Ile His Gly Arg Phe Thr Arg Ser
1 5 10 15
Gln Ile Leu Ile Gln Asn Gly Ser Glu Ile Asp Cys Ala Asp Lys Phe
20 25 30
Gly Asn Thr Pro Leu His Val Ala Ala Arg Tyr Gly His Glu Leu Leu
35 40 45
Ile Ser Thr Leu Met Thr Asn Gly Ala Asp Thr Ala Arg Arg Gly Ile
50 55 60
His Asp Met Phe Pro Leu His Leu Ala Val Leu Phe Gly Phe Ser Asp
65 70 75 80
Cys Cys Arg Lys Leu Leu Ser Ser Gly Gln Leu Tyr Ser Ile Val Ser
85 90 95
Ser Leu Ser Asn Glu His Val Leu Ser Ala Gly Phe Asp Ile Asn Thr
100 105 110
Pro Asp Asn Leu Gly Arg Thr Cys Leu His Ala Ala Ala Ser Gly Gly
115 120 125
Asn Val Glu Cys Leu Asn Leu Leu Leu Ser Ser Gly Ala Asp Leu Arg

130		135		140
Arg Arg Asp Lys Phe Gly Arg Thr Pro Leu His Tyr Ala Ala Ala Asn				
145		150		155 160
Gly Ser Tyr Gln Cys Ala Val Thr Leu Val Thr Ala Gly Ala Gly Val				
	165		170	175
Asn Glu Ala Asp Cys Lys Gly Cys Ser Pro Leu His Tyr Ala Ala Ala				
	180		185	190

<210> 404  
 <211> 270  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (252)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 404  
 Met Gly Pro Pro Pro Gly Ala Gly Val Ser Cys Arg Gly Gly Cys Gly  
 1 5 10 15  
 Phe Ser Arg Leu Leu Ala Trp Cys Phe Leu Leu Ala Leu Ser Pro Gln  
 20 25 30  
 Ala Pro Gly Ser Arg Gly Ala Glu Ala Val Trp Thr Ala Tyr Leu Asn  
 35 40 45  
 Val Ser Trp Arg Val Pro His Thr Gly Val Asn Arg Thr Val Trp Glu  
 50 55 60  
 Leu Ser Glu Glu Gly Val Tyr Gly Gln Asp Ser Pro Leu Glu Pro Val  
 65 70 75 80  
 Ala Gly Val Leu Val Pro Pro Asp Gly Pro Gly Ala Leu Asn Ala Cys  
 85 90 95  
 Asn Pro His Thr Asn Phe Thr Val Pro Thr Val Trp Gly Ser Thr Val  
 100 105 110  
 Gln Val Ser Trp Leu Ala Leu Ile Gln Arg Gly Gly Gly Cys Thr Phe  
 115 120 125  
 Ala Asp Lys Ile His Leu Ala Tyr Glu Arg Gly Ala Ser Gly Ala Val  
 130 135 140  
 Ile Phe Asn Phe Pro Gly Thr Arg Asn Glu Val Ile Pro Met Ser His  
 145 150 155 160  
 Pro Gly Ala Val Asp Ile Val Ala Ile Met Ile Gly Asn Leu Lys Gly  
 165 170 175  
 Thr Lys Ile Leu Gln Ser Ile Gln Arg Gly Ile Gln Val Thr Met Val  
 180 185 190

Ile Glu Val Gly Lys Lys His Gly Pro Trp Val Asn His Tyr Ser Ile  
195 200 205

Phe Phe Arg Phe Cys Val Leu Phe Tyr Tyr Tyr Gly Gly Asn Cys Gly  
210 215 220

Leu Phe Tyr Leu Leu Phe Cys Ser Lys Ala Thr Glu Cys Lys Ser Ser  
225 230 235 240

Lys Gln Glu Ala Glu Ala Ile Lys Gly Arg Cys Xaa Lys Ser Tyr Trp  
245 250 255

Lys Ala Ser Thr Thr His Thr Glu Thr Arg Arg Gln Gly Asn  
260 265 270

<210> 405

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 405

Phe Phe Tyr Phe Tyr Phe Leu Arg Trp Ser Leu Gly Leu Leu Pro Arg  
1 5 10 15

Leu Glu Cys Ser Gly Thr Ile Ser Ala His Cys Lys Leu Arg Leu Pro  
20 25 30

Asp Thr Asn Asn Ser Pro Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr  
35 40 45

Gly Ala Cys His His Ala Trp Leu Ile Phe Leu Phe Leu Val Asp  
50 55 60

<210> 406

<211> 27

<212> PRT

<213> Homo sapiens

<400> 406

Lys Gly Cys Leu Pro Phe Ser Ser Ser Ser Ser Trp Pro Gly Val Pro  
1 5 10 15

Thr Leu Ala Ser Leu Phe Gly Arg Leu Trp Phe  
20 25

<210> 407

<211> 92

<212> PRT

<213> Homo sapiens

<400> 407

Ile Ser Asp Leu Val Gly Arg Val Val Ser Gly Trp Leu Gly Asp Ala  
1 5 10 15



Val Pro Gly Pro Val Thr Arg Leu Leu Met Leu Trp Thr Thr Leu Thr  
20 25 30

Gly Val Ser Leu Ala Leu Phe Pro Val Ala Gln Ala Pro Thr Ala Leu  
35 40 45

Val Ala Leu Ala Val Ala Tyr Gly Phe Thr Ser Gly Ala Leu Ala Pro  
50 55 60

Leu Ala Phe Ser Val Leu Pro Glu Leu Ile Gly Thr Arg Arg Ile Tyr  
65 70 75 80

Cys Gly Leu Gly Leu Leu Gln Met Ile Glu Ser Ile  
85 90

<210> 408

<211> 221

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (176)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 408

Arg Phe Glu Phe Cys Glu Pro Ala Phe Val Val Gly Asn Cys Leu Gln  
1 5 10 15

Ile Ala Ser Asp Ser His Gln Tyr Asp Arg Ile Tyr Cys Gly Ala Gly  
20 25 30

Val Gln Lys Asp His Glu Asn Tyr Met Lys Ile Leu Leu Lys Val Gly  
35 40 45

Gly Ile Leu Val Met Pro Ile Glu Asp Gln Leu Thr Gln Ile Met Arg  
50 55 60

Thr Gly Gln Asn Thr Trp Glu Ser Lys Asn Ile Leu Ala Val Ser Phe  
65 70 75 80

Ala Pro Leu Val Gln Pro Ser Lys Asn Asp Asn Gly Lys Pro Asp Ser  
85 90 95

Val Gly Leu Pro Pro Cys Ala Val Arg Asn Leu Gln Asp Leu Ala Arg  
100 105 110

Ile Tyr Ile Arg Arg Thr Leu Arg Asn Phe Ile Asn Asp Glu Met Gln  
115 120 125

Ala Lys Gly Ile Pro Gln Arg Ala Pro Pro Lys Arg Lys Arg Lys Arg  
130 135 140

Val Lys Gln Arg Ile Asn Thr Tyr Val Phe Val Gly Asn Gln Leu Ile  
145 150 155 160

Pro Gln Pro Leu Asp Ser Glu Glu Asp Glu Lys Met Glu Glu Asp Xaa  
165 170 175

Lys Glu Glu Glu Glu Lys Asp His Asn Glu Ala Met Lys Pro Glu Glu

180	185	190
Pro Pro Gln Asn Leu Leu Arg Glu Lys Ile Met Lys Leu Pro Leu Pro		
195	200	205
Glu Ser Leu Lys Ala Tyr Leu Thr Tyr Phe Arg Asp Lys		
210	215	220
<210> 409		
<211> 137		
<212> PRT		
<213> Homo sapiens		
<220>		
<221> SITE		
<222> (136)		
<223> Xaa equals any of the naturally occurring L-amino acids		
<400> 409		
Leu Phe Ser Cys His Arg Ser Glu Lys Thr Cys Arg Arg Trp Met Ala		
1	5	10 15
Leu Asp Tyr Ala Gly Ile Ser Ile Gly Ile Leu Gly Cys Tyr Val Ser		
20	25	30
Gly Val Phe Tyr Ala Phe Tyr Cys Asn Asn Tyr Trp Arg Gln Val Tyr		
35	40	45
Leu Ile Thr Val Leu Ala Met Ile Leu Ala Val Phe Phe Ala Gln Ile		
50	55	60
His Pro Asn Tyr Leu Thr Gln Gln Trp Gln Arg Leu Arg Ser Ile Ile		
65	70	75 80
Phe Cys Ser Val Ser Gly Tyr Gly Val Ile Pro Thr Leu His Trp Val		
85	90	95
Trp Leu Asn Gly Gly Ile Gly Ala Pro Ile Val Gln Asp Phe Ala Pro		
100	105	110
Arg Val Ile Val Met Tyr Met Ile Ala Leu Leu Ala Phe Leu Phe Tyr		
115	120	125
Ile Ser Lys Val Pro Glu Arg Xaa Phe		
130	135	
<210> 410		
<211> 121		
<212> PRT		
<213> Homo sapiens		
<400> 410		
Glu Thr Ala Ala Glu Tyr Val Lys Ser Arg Leu Pro Glu Ala Leu Lys		
1	5	10 15
Gln His Leu Gln Asp Tyr Glu Lys Asp Lys Glu Asn Ser Val Leu Ser		
20	25	30
Tyr Gln Thr Ile Leu Glu Gln Gln Ile Leu Ser Ile Asp Arg Glu Met		
35	40	45

Leu Glu Lys Leu Thr Val Ser Tyr Asp Glu Ala Gly Thr Thr Cys Leu  
 50 55 60  
 Ile Ala Leu Leu Ser Asp Lys Asp Leu Thr Val Ala Asn Val Gly Asp  
 65 70 75 80  
 Ser Arg Gly Val Leu Cys Asp Lys Asp Gly Asn Ala Ile Pro Leu Ser  
 85 90 95  
 His Asp His Lys Pro Tyr Gln Leu Lys Glu Arg Lys Arg Ile Lys Arg  
 100 105 110  
 Ala Gly Gly Phe Ile Ser Phe Asn Gly  
 115 120

<210> 411  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 411  
 Ala His Cys Ser Leu Lys Leu Pro Gly Ser Ser His Pro Leu Ala Ser  
 1 5 10 15  
 Ala Ser Xaa Val Ala Gly Ile Thr Gly Val His His Cys His Thr Gln  
 20 25 30  
 Leu Ile Phe Asn Phe  
 35

<210> 412  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (36)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 412  
 Asp Thr Glu Phe His Ser Val Thr Gln Ala Gly Val Glu Trp Cys His  
 1 5 10 15  
 Leu Ser Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys  
 20 25 30  
 Leu Ser Leu Xaa Ser Ser Trp Asp Tyr Arg His Val Pro Pro Cys Leu  
 35 40 45

Ala Asn Phe Cys Ile Phe  
 50

<210> 413

<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (32)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 413  
His Ser Val Thr Gln Ala Gly Val Glu Trp Cys His Leu Ser Ser Leu  
1 5 10 15  
Gln Pro Leu Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Xaa  
20 25 30  
Ser Ser Trp Asp Tyr Arg His Val Pro Pro Cys Leu Ala Asn Phe Cys  
35 40 45  
Ile Phe  
50

<210> 414  
<211> 94  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (62)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 414  
Ser Thr His Cys Asn Leu Arg Leu Leu Gly Ser Ser Asp Ser Pro Ala  
1 5 10 15  
Ser Ala Ser Arg Val Ala Gly Val Thr Gly Met Cys His His Ala Gln  
20 25 30  
Leu Ile Phe Val Leu Leu Val Glu Thr Gly Phe Cys His Val Gly Gln  
35 40 45  
Ala Gly Leu Glu Leu Leu Thr Ser His Asp Leu Arg Thr Xaa Ala Ser  
50 55 60  
Gln Ser Val Gly Ile Thr Gly Val Ser His Arg Thr Arg Pro Gly Leu  
65 70 75 80  
Pro Leu Cys Thr Tyr Phe Val Glu Ala Glu Leu Arg Pro Gly  
85 90

<210> 415  
<211> 34  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 415  
 Pro Tyr Leu Pro His Phe Xaa Ile Phe Cys Arg Asp Gly Val Ser Leu  
   1                  5                  10                  15  
  
 Cys Cys Pro Gly Trp Ser Xaa Thr Pro Glu Phe Lys Gln Ser Ser Ala  
           20                  25                  30  
  
 Leu Ala  
  
  
 <210> 416  
 <211> 13  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 416  
 Glu Cys Trp Asp Tyr Arg His Glu Pro Ser Cys Leu Ala  
   1                  5                  10  
  
 <210> 417  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 417  
 Leu Pro Lys Cys Trp Ser Ala  
   1                  5  
  
 <210> 418  
 <211> 317  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 418  
 Val Ala Val Leu Cys Val Cys Asp Leu Ser Pro Ala Gln Cys Asp Ile  
   1                  5                  10                  15  
  
 Asn Cys Cys Cys Asp Pro Asp Cys Ser Ser Val Asp Phe Ser Val Phe  
           20                  25                  30  
  
 Ser Ala Cys Ser Val Pro Val Val Thr Gly Asp Ser Gln Phe Cys Ser  
           35                  40                  45  
  
 Gln Lys Ala Val Ile Tyr Ser Leu Asn Phe Thr Ala Asn Pro Pro Gln  
   50                  55                  60  
  
 Arg Val Phe Glu Leu Val Asp Gln Ile Asn Pro Ser Ile Phe Cys Ile  
   65                  70                  75                  80  
  
 His Ile Thr Asn Tyr Lys Pro Ala Leu Ser Phe Ile Asn Pro Glu Val  
           85                  90                  95  
  
 Pro Asp Glu Asn Asn Phe Asp Thr Leu Met Lys Thr Ser Asp Gly Phe  
           100                  105                  110

Thr Leu Asn Ala Glu Ser Tyr Val Ser Phe Thr Thr Lys Leu Asp Ile  
 115 120 125  
 Pro Thr Ala Ala Lys Tyr Glu Tyr Gly Val Pro Leu Gln Thr Ser Asp  
 130 135 140  
 Ser Phe Leu Arg Phe Pro Ser Ser Leu Thr Ser Ser Leu Cys Thr Asp  
 145 150 155 160  
 Asn Asn Pro Ala Ala Phe Leu Val Asn Gln Ala Val Lys Cys Thr Arg  
 165 170 175  
 Lys Ile Asn Leu Glu Gln Cys Glu Glu Ile Glu Ala Leu Ser Met Ala  
 180 185 190  
 Phe Tyr Ser Ser Pro Glu Ile Leu Arg Val Pro Asp Ser Arg Lys Lys  
 195 200 205  
 Val Pro Ile Thr Val Gln Ser Ile Val Ile Gln Ser Leu Asn Lys Thr  
 210 215 220  
 Leu Thr Arg Arg Glu Asp Thr Asp Val Leu Gln Pro Thr Leu Val Asn  
 225 230 235 240  
 Ala Gly His Phe Ser Leu Cys Val Asn Val Val Leu Glu Val Lys Tyr  
 245 250 255  
 Ser Leu Thr Tyr Thr Asp Ala Gly Glu Val Thr Lys Ala Asp Leu Ser  
 260 265 270  
 Phe Val Leu Gly Thr Val Ser Ser Val Val Val Pro Leu Gln Gln Lys  
 275 280 285  
 Phe Glu Ile His Phe Leu Gln Glu Asn Thr Gln Pro Val Pro Leu Ser  
 290 295 300  
 Gly Asn Pro Gly Tyr Val Val Gly Leu Pro Leu Ala Ala  
 305 310 315

<210> 419

<211> 118

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 419

Cys Leu Leu His Pro Ile Ile Pro Xaa Pro Val Ile Asn Gly Tyr Arg  
 1 5 10 15

Asn Lys Ser Thr Phe Ser Val Asn Arg Gly Pro Asp Gly Asn Pro Lys



Ile	Leu	Leu	Gly	Leu	Thr	Asp	Cys	Pro	Glu	Leu	Gln	Ser	Leu	Leu	Phe
			20					25					30		
Val	Leu	Phe	Leu	Val	Val	Tyr	Leu	Val	Thr	Leu	Leu	Gly	Asn	Leu	Gly
		35					40					45			
Met	Ile	Met	Leu	Met	Arg	Leu	Asp	Ser	Arg	Leu	His	Thr	Pro	Met	Tyr
	50					55					60				
Phe	Phe	Leu	Thr	Asn	Leu	Ala	Phe	Val	Asp	Leu	Cys	Tyr	Thr	Ser	Asn
65					70					75					80
Ala	Thr	Pro	Gln	Met	Ser	Thr	Asn	Ile	Val	Ser	Glu	Lys	Thr	Ile	Ser
				85					90					95	
Phe	Ala	Gly	Cys	Phe	Thr	Gln	Cys	Tyr	Ile	Phe	Ile	Ala	Leu	Leu	Leu
		100						105					110		
Thr	Glu	Phe	Tyr	Met	Leu	Ala	Ala	Met	Ala	Tyr	Asp	Arg	Tyr	Val	Ala
		115					120					125			
Ile	Xaa	Asp	Pro	Leu	Arg	Tyr	Ser	Val	Lys	Thr	Ser	Arg	Arg	Val	Cys
	130					135					140				
Ile	Cys	Leu	Ala	Thr	Phe	Pro	Tyr	Val	Tyr	Gly	Phe	Ser	Asp	Gly	Leu
145					150					155					160
Phe	Gln	Ala	Ile	Leu	Thr	Phe	Arg	Leu	Thr	Phe	Cys	Arg	Ser	Asn	Val
				165					170					175	
Ile	Asn	His	Phe	Tyr	Cys	Ala	Asp	Pro	Pro	Leu	Ile	Lys	Leu	Ser	
		180						185					190		

<210> 423

<211> 110

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (90)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (97)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (103)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 423



Asp Ile Cys Gly Ser Arg Asn Ser Cys Val Ser Cys Val Asp Gly Asn  
 1 5 10 15  
 Ala Thr Cys Phe Trp Ile Glu Cys Lys Gly Lys Ser Tyr Cys Ser Asp  
 20 25 30  
 Asn Ser Thr Ala Gly Asp Cys Lys Val Val Asn Thr Thr Gly Phe Cys  
 35 40 45  
 Ser Ala Lys Thr Thr Thr Leu Pro Ser Thr Thr Thr Thr Ser Thr Thr  
 50 55 60  
 Xaa Thr Thr Ser Gly Thr Thr Asn Thr Thr Leu Ser Pro Thr Ile Gln  
 65 70 75 80  
 Pro Thr Arg Lys Ser Thr Phe Asp Ala Xaa Gln Phe His Trp Arg Asn  
 85 90 95  
 Xaa Pro Cys Leu Gly Val Xaa Ala Val Ile Phe Phe Leu Tyr  
 100 105 110

<210> 424  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<400> 424  
 Leu Lys Lys Thr Trp Ala Arg Trp Arg His Met Phe Arg Glu Gln Pro  
 1 5 10 15  
 Val Asp Glu Ile Arg Asn Tyr Phe Gly Glu Lys Val Ala Leu Tyr Phe  
 20 25 30  
 Val Trp Leu Gly Trp Tyr Thr Tyr Met Leu Val Pro Ala Ala Leu Thr  
 35 40 45  
 Gly Leu Leu Val Phe Leu Ser Gly Phe Ser Leu Phe Glu Ala Ser Gln  
 50 55 60  
 Ile Ser Lys Glu Ile Cys Glu Ala His Asp Ile Leu Met Cys Pro Leu  
 65 70 75 80  
 Gly Asp His Ser Arg Arg Tyr Gln Arg Leu Ser Glu Thr Cys Thr Phe  
 85 90 95  
 Ala Lys Leu Thr His Leu Phe Asp Asn Asp Gly Thr Val Val Phe Ala  
 100 105 110  
 Ile Phe Met Ala Leu Trp Ala Thr Val Phe Leu Glu Ile Trp Lys Arg  
 115 120 125  
 Gln Arg Ala Arg Val Val Leu His Trp Asp Leu Tyr Val Trp Asp Glu  
 130 135 140  
 Glu Gln  
 145

<210> 425  
 <211> 44  
 <212> PRT

<213> Homo sapiens

<400> 425

Met Glu Ser Arg Ser Val Ser Gln Ala Gly Gly Gln Trp Arg Asp Leu  
1 5 10 15

Gly Ser Leu Gln Pro Pro Pro Pro Arg Phe Lys Arg Phe Ser Cys Leu  
20 25 30

Gly Leu Pro Lys Cys Trp Asp Tyr Arg His Glu Pro  
35 40

<210> 426

<211> 40

<212> PRT

<213> Homo sapiens

<400> 426

Ser Val Ser Gln Ala Gly Gly Gln Trp Arg Asp Leu Gly Ser Leu Gln  
1 5 10 15

Pro Pro Pro Pro Arg Phe Lys Arg Phe Ser Cys Leu Gly Leu Pro Lys  
20 25 30

Cys Trp Asp Tyr Arg His Glu Pro  
35 40

<210> 427

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 427

Pro Arg Leu Lys Gln Ser Phe Cys Leu Asp Leu Pro Arg Cys Trp Asp  
1 5 10 15

Tyr Arg His Glu Pro Leu His Leu Ala Phe Ile Xaa Phe Leu Ser Phe  
20 25 30

Phe Leu Ser Phe Phe Phe Xaa Met Glu Ser Arg Ser Val Ser Gln Ala  
35 40 45

Gly Gly Gln Trp Arg Asp Leu Gly Ser Leu Gln Pro Pro Pro Pro Arg  
50 55 60

Phe Lys  
65

<210> 428

<211> 44

<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (7)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 428  
Ala Gln Ala Gly Val Gln Xaa Leu Asn Leu Ser Ser Leu Gln Pro Gln  
1 5 10 15  
Pro Ala Gly Leu Lys Gln Ser Ser His Pro Ser Leu Pro Ser Ser Trp  
20 25 30  
Asp Tyr Arg Tyr Ser Thr Pro His Pro Ala Asn Phe  
35 40

<210> 429  
<211> 31  
<212> PRT  
<213> Homo sapiens

<400> 429  
Phe Phe Cys Arg Asp Gly Ile Ser Pro Cys Cys Pro Gly Trp Ser Arg  
1 5 10 15  
Thr Pro Arg Leu Arg Arg Ser Ala His Leu Asn Leu Pro Gln Cys  
20 25 30

<210> 430  
<211> 356  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (189)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (253)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 430  
Met Phe Gly Thr Leu Leu Leu Tyr Cys Phe Phe Leu Ala Thr Val Pro  
1 5 10 15  
Ala Leu Ala Glu Thr Gly Gly Glu Arg Gln Leu Ser Pro Glu Lys Ser  
20 25 30  
Glu Ile Trp Gly Pro Gly Leu Lys Ala Asp Val Val Leu Pro Ala Arg  
35 40 45  
Tyr Phe Tyr Ile Gln Ala Val Asp Thr Ser Gly Asn Lys Phe Thr Ser  
50 55 60  
Ser Pro Gly Glu Lys Val Phe Gln Val Lys Val Ser Ala Pro Glu Glu  
65 70 75 80

Gln Phe Thr Arg Val Gly Val Gln Val Leu Asp Arg Lys Asp Gly Ser  
                     85                    90                    95  
 Phe Ile Val Arg Tyr Arg Met Tyr Ala Ser Tyr Lys Asn Leu Lys Val  
                     100                    105                    110  
 Glu Val Lys Phe Gln Gly Gln His Val Ala Lys Ser Pro Tyr Ile Leu  
                     115                    120                    125  
 Lys Gly Pro Val Tyr His Glu Asn Cys Asp Cys Pro Leu Gln Asp Ser  
                     130                    135                    140  
 Ala Ala Trp Leu Arg Glu Met Asn Cys Pro Glu Thr Ile Ala Gln Ile  
                     145                    150                    155                    160  
 Gln Arg Asp Leu Ala His Phe Pro Ala Val Asp Pro Glu Lys Ile Ala  
                     165                    170                    175  
 Val Glu Ile Pro Lys Arg Phe Gly Gln Arg Gln Ser Xaa Cys His Tyr  
                     180                    185                    190  
 Thr Leu Lys Asp Asn Lys Val Tyr Ile Lys Thr His Gly Glu His Val  
                     195                    200                    205  
 Gly Phe Arg Ile Phe Met Asp Ala Ile Leu Leu Ser Leu Thr Arg Lys  
                     210                    215                    220  
 Val Lys Met Pro Asp Val Glu Leu Phe Val Asn Leu Gly Asp Trp Pro  
                     225                    230                    235                    240  
 Leu Glu Lys Lys Lys Ser Asn Ser Asn Ile His Pro Xaa Phe Ser Trp  
                     245                    250                    255  
 Cys Gly Ser Thr Asp Ser Lys Asp Ile Val Met Pro Thr Tyr Asp Leu  
                     260                    265                    270  
 Thr Asp Ser Val Leu Glu Thr Met Gly Arg Val Ser Leu Asp Met Met  
                     275                    280                    285  
 Ser Val Gln Ala Asn Thr Gly Pro Pro Trp Glu Ser Lys Asn Ser Thr  
                     290                    295                    300  
 Ala Val Trp Arg Gly Arg Asp Ser Arg Lys Glu Arg Leu Glu Leu Val  
                     305                    310                    315                    320  
 Lys Leu Ser Arg Lys His Pro Glu Leu Ile Asp Ala Ala Phe Thr Asn  
                     325                    330                    335  
 Phe Phe Phe Phe Lys His Asp Glu Asn Leu Tyr Gly Pro Ile Val Asn  
                     340                    345                    350  
 Ile Phe His Phe  
                     355

<210> 431

<211> 151

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (70)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 431  
 Glu His Ile Ser Phe Phe Asp Phe Phe Lys His Lys Tyr Xaa Ile Asn  
 1 5 10 15  
 Ile Asp Gly Thr Val Ala Ala Tyr Arg Leu Pro Tyr Leu Leu Val Gly  
 20 25 30  
 Asp Ser Val Val Leu Lys Gln Asp Ser Ile Tyr Tyr Glu His Phe Tyr  
 35 40 45  
 Asn Glu Leu Gln Pro Trp Lys His Tyr Ile Pro Val Lys Ser Asn Leu  
 50 55 60  
 Ser Asp Leu Leu Glu Xaa Leu Lys Trp Ala Lys Asp His Asp Glu Glu  
 65 70 75 80  
 Ala Lys Lys Ile Ala Lys Ala Gly Gln Glu Phe Ala Arg Asn Asn Leu  
 85 90 95  
 Met Gly Asp Asp Ile Phe Cys Tyr Tyr Phe Lys Leu Phe Gln Glu Tyr  
 100 105 110  
 Ala Asn Leu Gln Val Ser Glu Pro Gln Ile Arg Glu Gly Met Lys Arg  
 115 120 125  
 Val Glu Pro Gln Thr Glu Asp Asp Leu Phe Pro Cys Thr Cys His Arg  
 130 135 140  
 Lys Lys Thr Lys Asp Glu Leu  
 145 150

<210> 432  
 <211> 158  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Asp Trp Leu Thr Glu Lys Pro Glu Leu Phe Gln Leu Ala Leu Lys Ala  
 1 5 10 15  
 Phe Arg Tyr Thr Leu Lys Leu Met Ile Asp Lys Ala Ser Leu Gly Pro  
 20 25 30  
 Ile Glu Asp Phe Arg Glu Leu Ile Lys Tyr Leu Glu Glu Tyr Glu Arg  
 35 40 45  
 Asp Trp Tyr Ile Gly Leu Val Ser Asp Glu Lys Trp Lys Glu Ala Ile  
 50 55 60  
 Leu Gln Glu Lys Pro Tyr Leu Phe Ser Leu Gly Tyr Asp Ser Asn Met

65		70		75		80									
Gly	Ile	Tyr	Thr	Gly	Arg	Val	Leu	Ser	Leu	Gln	Glu	Leu	Leu	Ile	Gln
				85					90					95	
Val	Gly	Lys	Leu	Asn	Pro	Glu	Ala	Val	Arg	Gly	Gln	Trp	Ala	Asn	Leu
			100					105					110		
Ser	Trp	Glu	Leu	Leu	Tyr	Ala	Thr	Asn	Asp	Asp	Glu	Glu	Arg	Tyr	Ser
		115					120					125			
Ile	Gln	Ala	His	Pro	Leu	Leu	Leu	Arg	Asn	Leu	Thr	Val	Gln	Ala	Ala
	130					135					140				
Glu	Pro	Pro	Leu	Gly	Tyr	Pro	Ile	Tyr	Ser	Ser	Lys	Pro	Leu		
145					150					155					

<210> 433

<211> 120

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (64)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 433

Val	Arg	Met	Glu	Met	Ala	Ser	Ser	Ala	Gly	Ser	Trp	Leu	Ser	Gly	Cys
1				5					10					15	
Leu	Ile	Pro	Leu	Val	Phe	Leu	Arg	Leu	Ser	Val	His	Val	Ser	Gly	His
			20					25					30		
Ala	Gly	Asp	Ala	Gly	Lys	Phe	His	Val	Ala	Leu	Leu	Gly	Gly	Thr	Ala
		35					40					45			
Glu	Leu	Leu	Cys	Pro	Leu	Ser	Leu	Trp	Pro	Gly	Thr	Val	Pro	Lys	Xaa
	50					55					60				
Val	Arg	Trp	Leu	Arg	Ser	Pro	Phe	Pro	Gln	Arg	Ser	Gln	Ala	Val	His
65					70					75					80
Ile	Phe	Arg	Asp	Gly	Lys	Asp	Gln	Asp	Glu	Asp	Leu	Met	Pro	Glu	Tyr
			85						90					95	
Lys	Gly	Arg	Thr	Val	Leu	Val	Arg	Asp	Ala	Gln	Glu	Gly	Ser	Val	Thr
			100					105					110		
Leu	Gln	Ile	Leu	Asp	Val	Arg	Leu								
	115						120								

<210> 434

<211> 143

<212> PRT

<213> Homo sapiens

<400> 434

Asp	Pro	His	Gln	Leu	Phe	Asp	Asp	Thr	Ser	Ser	Ala	Gln	Ser	Arg	Gly
1				5					10					15	

Tyr Gly Ala Gln Arg Ala Pro Gly Gly Leu Ser Tyr Pro Ala Ala Ser  
                   20                                  25                                  30  
 Pro Thr Pro His Ala Ala Phe Leu Ala Asp Pro Val Ser Asn Met Ala  
                   35                                  40                                  45  
 Met Ala Tyr Gly Ser Ser Leu Ala Ala Gln Gly Lys Glu Leu Val Asp  
                   50                                  55                                  60  
 Lys Asn Ile Asp Arg Phe Ile Pro Ile Thr Lys Leu Lys Tyr Tyr Phe  
                   65                                  70                                  75                                  80  
 Ala Val Asp Thr Met Tyr Val Gly Arg Lys Leu Gly Leu Leu Phe Phe  
                                   85                                  90                                  95  
 Pro Tyr Leu His Gln Asp Trp Glu Val Gln Tyr Gln Gln Asp Thr Pro  
                                   100                                  105                                  110  
 Val Ala Pro Arg Phe Asp Val Asn Ala Pro Asp Leu Tyr Ile Pro Ala  
                                   115                                  120                                  125  
 Met Ala Phe Ile Thr Tyr Val Leu Val Ala Gly Leu Arg Trp Gly  
                   130                                  135                                  140

<210> 435

<211> 179

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (102)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (160)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 435

Met Asn Met Ser Val Leu Thr Leu Gln Glu Tyr Glu Phe Glu Lys Gln  
   1                                  5                                  10                                  15

Phe Asn Glu Asn Glu Ala Ile Gln Trp Met Gln Glu Asn Trp Lys Lys  
                   20                                  25                                  30

Ser Phe Leu Phe Ser Ala Leu Tyr Ala Ala Phe Ile Phe Gly Gly Arg  
                   35                                  40                                  45

His Leu Met Asn Lys Arg Ala Lys Phe Glu Leu Arg Lys Pro Leu Val  
                   50                                  55                                  60

Leu Trp Ser Leu Thr Leu Ala Val Phe Ser Ile Phe Gly Ala Leu Arg  
                   65                                  70                                  75                                  80

Thr Gly Ala Tyr Met Val Tyr Ile Leu Met Thr Lys Gly Leu Lys Gln  
                                   85                                  90                                  95

Ser Val Cys Asp Gln Xaa Phe Tyr Asn Gly Pro Val Ser Lys Phe Trp

100	105	110
Ala Tyr Ala Phe Val Leu Ser Lys Ala Pro Glu Leu Gly Asp Thr Ile		
115	120	125
Phe Ile Ile Leu Arg Lys Gln Lys Leu Ile Phe Leu His Trp Tyr His		
130	135	140
His Ile Thr Val Leu Leu Tyr Ser Trp Tyr Ser Tyr Lys Asp Met Xaa		
145	150	155
Cys Arg Gly Gly Trp Phe Met Thr Met Asn Tyr Gly Val His Ala Val		
165	170	175
Met Tyr Ser		

<210> 436  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 436
Arg Trp Asn Phe Ser Leu Ile Ala Gln Ala Gly Val Gln Trp His Asp
1 5 10 15
Leu Gly Ser Pro Gln Pro Pro Pro Pro Gly Leu Lys Arg Phe Ser Phe
20 25 30
Leu Gly Leu Pro Ser Ser Trp Asp Tyr Arg His Ala Pro Pro Cys Pro
35 40 45
Ala Asn Phe Val Phe Leu Val Glu Met Gly Phe Leu His Val Gly Gln
50 55 60
Ala Gly Leu Glu Leu Pro Thr Ser Gly Gly Pro Pro Ala Trp Ala Ser
65 70 75 80
Gln Ser Ala Gly Ile Thr Gly Val Ser His Arg Ala Trp Pro Glu Asn
85 90 95
Ser His

<210> 437  
 <211> 583  
 <212> PRT  
 <213> Homo sapiens

<400> 437
Val Thr Arg Gln Asp Met Asn Asp Ala Val Ile Thr Leu Asn Gly Leu
1 5 10 15
Glu Lys Arg Phe Pro Gly Met Asp Lys Pro Ala Val Ala Pro Leu Asp
20 25 30
Cys Thr Ile His Ala Gly Tyr Val Thr Gly Leu Val Gly Pro Asp Gly
35 40 45
Ala Gly Lys Thr Thr Leu Met Arg Met Leu Ala Gly Leu Leu Lys Pro



50					55					60					
Asp 65	Ser	Gly	Ser	Ala	Thr 70	Val	Ile	Gly	Phe	Asp 75	Pro	Ile	Lys	Asn	Asp 80
Gly	Ala	Leu	His	Ala 85	Val	Leu	Gly	Tyr	Met 90	Pro	Gln	Lys	Phe	Gly 95	Leu
Tyr	Glu	Asp	Leu 100	Thr	Val	Met	Glu	Asn 105	Leu	Asn	Leu	Tyr	Ala 110	Asp	Leu
Arg	Ser	Val 115	Thr	Gly	Glu	Ala	Arg 120	Lys	Gln	Thr	Phe	Ala 125	Arg	Leu	Leu
Glu 130	Phe	Thr	Ser	Leu	Gly	Pro 135	Phe	Thr	Gly	Arg	Leu 140	Ala	Gly	Lys	Leu
Ser 145	Gly	Gly	Met	Lys	Gln 150	Lys	Leu	Gly	Leu	Ala 155	Cys	Thr	Leu	Val	Gly 160
Glu	Pro	Lys	Val 165	Leu	Leu	Leu	Asp	Glu 170	Pro	Gly	Val	Gly	Val	Asp 175	Pro
Ile	Ser	Arg 180	Arg	Glu	Leu	Trp	Gln 185	Met	Val	His	Glu	Leu 190	Ala	Gly	Glu
Gly	Met 195	Leu	Ile	Leu	Trp	Ser 200	Thr	Ser	Tyr	Leu	Asp 205	Glu	Ala	Glu	Gln
Cys 210	Arg	Asp	Val	Leu	Leu	Met 215	Asn	Glu	Gly	Glu	Leu 220	Leu	Tyr	Gln	Gly
Glu 225	Pro	Lys	Ala	Leu	Thr 230	Gln	Thr	Met	Ala	Gly 235	Arg	Ser	Phe	Leu	Met 240
Thr	Ser	Pro	His 245	Glu	Gly	Asn	Arg	Lys	Leu 250	Leu	Gln	Arg	Ala 255	Leu	Lys
Leu	Pro	Gln 260	Val	Ser	Asp	Gly	Met 265	Ile	Gln	Gly	Lys	Ser 270	Val	Arg	Leu
Ile	Leu 275	Lys	Lys	Glu	Ala	Thr 280	Pro	Asp	Asp	Ile	Arg 285	His	Ala	Asp	Gly
Met 290	Pro	Glu	Ile	Asn	Ile	Asn 295	Glu	Thr	Thr	Pro	Arg 300	Phe	Glu	Asp	Ala
Phe 305	Ile	Asp	Leu	Leu	Gly 310	Gly	Ala	Gly	Thr	Ser 315	Glu	Ser	Pro	Leu	Gly 320
Ala	Ile	Leu	His 325	Thr	Val	Glu	Gly	Thr	Pro 330	Gly	Glu	Thr	Val	Ile 335	Glu
Ala	Lys	Glu 340	Leu	Thr	Lys	Lys	Phe 345	Gly	Asp	Phe	Ala	Ala 350	Thr	Asp	His
Val	Asn 355	Phe	Ala	Val	Lys	Arg	Gly 360	Glu	Ile	Phe	Gly	Leu 365	Leu	Gly	Pro
Asn	Gly	Ala	Gly	Lys	Ser	Thr	Thr	Phe	Lys	Met	Met	Cys	Gly	Leu	Leu

370                      375                      380  
 Val Pro Thr Ser Gly Gln Ala Leu Val Leu Gly Met Asp Leu Lys Glu  
 385                      390                      395                      400  
 Ser Ser Gly Lys Ala Arg Gln His Leu Gly Tyr Met Ala Gln Lys Phe  
                     405                      410                      415  
 Ser Leu Tyr Gly Asn Leu Thr Val Glu Gln Asn Leu Arg Phe Phe Ser  
                     420                      425                      430  
 Gly Val Tyr Gly Leu Arg Gly Arg Ala Gln Asn Glu Lys Ile Ser Arg  
                     435                      440                      445  
 Met Ser Glu Ala Phe Gly Leu Lys Ser Ile Ala Ser His Ala Thr Asp  
                     450                      455                      460  
 Glu Leu Pro Leu Gly Phe Lys Gln Arg Leu Ala Leu Ala Cys Ser Leu  
 465                      470                      475                      480  
 Met His Glu Pro Asp Ile Leu Phe Leu Asp Glu Pro Thr Ser Gly Val  
                     485                      490                      495  
 Asp Pro Leu Thr Arg Arg Glu Phe Trp Leu His Ile Asn Ser Met Val  
                     500                      505                      510  
 Glu Lys Gly Val Thr Val Met Val Thr Thr His Phe Met Asp Glu Ala  
                     515                      520                      525  
 Glu Tyr Cys Asp Arg Ile Gly Leu Val Tyr Arg Gly Lys Leu Ile Ala  
                     530                      535                      540  
 Ser Gly Thr Pro Asp Asp Leu Lys Ala Gln Ser Ala Asn Asp Glu Gln  
 545                      550                      555                      560  
 Pro Asp Pro Thr Met Glu Gln Ala Phe Ile Gln Leu Ile His Asp Trp  
                     565                      570                      575  
 Asp Lys Glu His Ser Asn Glu  
                     580  
 <210> 438  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens  
 <400> 438  
 Ser Ile Glu Leu Leu Gly Ser Asp Asp Leu Ser Thr Ser Ala Ser Gln  
   1                      5                      10                      15  
 Val Val Gly Thr Leu Gly Met Leu Cys His Ala Trp Leu Leu Leu Met  
                     20                      25                      30  
 Tyr Leu Phe Leu Glu Met Arg Ser His Cys Val Ala Gln Thr Gly Leu  
                     35                      40                      45  
 Glu Leu Leu Ala Ser Ser His Pro Pro Phe Ser Ala Ser Thr Val Ala  
                     50                      55                      60  
 Gly Ile Ser Gly Thr Cys His Cys

65

70

&lt;210&gt; 439

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 439

Asp Pro His Gln Leu Phe Asp Asp Thr Ser Ser Ala Gln Ser Arg Gly  
 1 5 10 15

Tyr Gly Ala Gln Arg Ala Pro Gly Gly Leu Ser Tyr Pro Ala Ala Ser  
 20 25 30

Pro Thr Pro His Ala Ala Phe Leu Ala Asp Pro Val Ser Asn Met Ala  
 35 40 45

Met Ala Tyr Gly Ser Ser Leu Ala Ala Gln Gly Lys Glu Leu Val Asp  
 50 55 60

Lys Asn Ile Asp Arg Phe Ile Pro Ile Thr Lys Leu Lys Tyr Tyr Phe  
 65 70 75 80

Ala Val Asp Thr Met Tyr Val Gly Arg Lys Leu Gly Leu Leu Phe Phe  
 85 90 95

Pro Tyr Leu His Gln Asp Trp Glu Val Gln Tyr Gln Gln Asp Thr Pro  
 100 105 110

Val Ala Pro Arg Phe Asp Val Asn Ala Pro Asp Leu Tyr Ile Pro Ala  
 115 120 125

Met Ala Phe Ile Thr Tyr Val Leu Val Ala Gly Leu Arg Trp Gly  
 130 135 140

&lt;210&gt; 440

&lt;211&gt; 234

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (10)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (93)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (95)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (101)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

<400> 440

Gly Pro Ala Pro Cys Pro Thr Leu Gly Xaa Ser Cys Cys Cys Ser Cys  
1 5 10 15  
Cys Cys Cys Pro Ser Gly Ala Lys Pro Thr Gln Ala Ala Thr Gly Ser  
20 25 30  
Gln Gly Cys Pro Ala Cys Pro Gly His Gln Gly Arg Met Gly Thr Thr  
35 40 45  
Asp Cys Arg Gly Pro Arg Gly Ser Gln Glu Ser Gln Pro Phe Pro Gly  
50 55 60  
Ser Glu Asp Pro Lys Gly Arg Arg Glu Asn Pro Ala Tyr Pro Ala Ile  
65 70 75 80  
Leu Gly Lys Met Ala Pro Trp Asp Pro Leu Gly Cys Xaa Gly Xaa Pro  
85 90 95  
Ala Pro Trp Ala Xaa Leu Glu Ser Gln Lys Phe Gln Ser Val Phe Thr  
100 105 110  
Val Thr Arg Gln Thr His Gln Pro Pro Ala Pro Asn Ser Leu Ile Arg  
115 120 125  
Phe Asn Ala Val Leu Thr Asn Pro Gln Gly Asp Tyr Asp Thr Ser Thr  
130 135 140  
Gly Lys Phe Thr Cys Lys Val Pro Gly Leu Tyr Tyr Phe Val Tyr His  
145 150 155 160  
Ala Ser His Thr Ala Asn Leu Cys Val Leu Leu Tyr Arg Ser Gly Val  
165 170 175  
Lys Val Val Thr Phe Cys Gly His Thr Ser Lys Thr Asn Gln Val Asn  
180 185 190  
Ser Gly Gly Val Leu Leu Arg Leu Gln Val Gly Glu Glu Val Trp Leu  
195 200 205  
Ala Val Asn Asp Tyr Tyr Asp Met Val Gly Ile Gln Gly Ser Asp Ser  
210 215 220  
Val Phe Ser Gly Phe Leu Leu Phe Pro Asp  
225 230

<210> 441

<211> 97

<212> PRT

<213> Homo sapiens

<400> 441

Gly Phe Thr Leu Trp Gly Ser Glu Tyr Ser Trp Asn Trp Asn Ala Ile  
1 5 10 15  
Asp Glu Gly Pro Lys Arg Asp Ile Val Lys Glu Leu Glu Val Ala Ile  
20 25 30  
Arg Asn Arg Thr Asp Leu Arg Phe Gly Leu Tyr Tyr Ser Leu Phe Glu  
35 40 45

Trp Phe His Pro Leu Phe Leu Glu Asp Glu Ser Ser Ser Phe His Lys  
50 55 60  
Arg Gln Phe Pro Val Ser Lys Thr Leu Pro Glu Leu Tyr Glu Leu Val  
65 70 75 80  
Asn Asn Tyr Gln Pro Glu Val Leu Trp Ser Asp Gly Asp Gly Gly Glu  
85 90 95

Pro

<210> 442  
<211> 50  
<212> PRT  
<213> Homo sapiens

<400> 442  
Ala His Ser Ala Thr Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala  
1 5 10 15  
Arg Gln Leu Pro Ala Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile  
20 25 30  
His Trp Gly Val Phe Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp  
35 40 45

Leu Tyr  
50

<210> 443  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 443  
Tyr Trp Asn Ser Thr Gly Phe Leu Ala Trp Leu Tyr Asn Glu Ser Pro  
1 5 10 15  
Val Arg Gly Thr Val Val Thr Asn Asp Arg Trp Gly  
20 25

<210> 444  
<211> 309  
<212> PRT  
<213> Homo sapiens

<400> 444  
Phe His Phe Thr Asp Cys Leu Phe Phe Gly Ser Leu Met Ser Ala Thr  
1 5 10 15  
Asp Pro Val Thr Val Leu Ala Ile Phe His Glu Leu His Val Asp Pro  
20 25 30  
Asp Leu Tyr Thr Leu Leu Phe Gly Glu Ser Val Leu Asn Asp Ala Val  
35 40 45  
Ala Ile Val Leu Thr Tyr Ser Ile Ser Ile Tyr Ser Pro Lys Glu Asn  
50 55 60

Pro Asn Ala Phe Asp Ala Ala Ala Phe Phe Gln Ser Val Gly Asn Phe  
 65 70 75 80  
 Leu Gly Ile Phe Ala Gly Ser Phe Ala Met Gly Ser Ala Tyr Ala Ile  
 85 90 95  
 Ile Thr Ala Leu Leu Thr Lys Phe Thr Lys Leu Cys Glu Phe Pro Met  
 100 105 110  
 Leu Glu Thr Gly Leu Phe Phe Leu Leu Ser Trp Ser Ala Phe Leu Ser  
 115 120 125  
 Ala Glu Ala Ala Gly Leu Thr Gly Ile Val Ala Val Leu Phe Cys Gly  
 130 135 140  
 Val Thr Gln Ala His Tyr Thr Tyr Asn Asn Leu Ser Ser Asp Ser Lys  
 145 150 155 160  
 Ile Arg Thr Lys Gln Leu Phe Glu Phe Met Asn Phe Leu Ala Glu Asn  
 165 170 175  
 Val Ile Phe Cys Tyr Met Gly Leu Ala Leu Phe Thr Phe Gln Asn His  
 180 185 190  
 Ile Phe Asn Ala Leu Phe Ile Leu Gly Ala Phe Leu Ala Ile Phe Val  
 195 200 205  
 Ala Arg Ala Cys Asn Ile Tyr Pro Leu Ser Phe Leu Leu Asn Leu Gly  
 210 215 220  
 Arg Lys Gln Lys Ile Pro Trp Asn Phe Gln His Met Met Met Phe Ser  
 225 230 235 240  
 Gly Leu Arg Gly Ala Ile Ala Phe Ala Leu Ala Ile Arg Asn Thr Glu  
 245 250 255  
 Ser Gln Pro Lys Gln Met Met Phe Thr Thr Thr Leu Leu Leu Val Phe  
 260 265 270  
 Phe Thr Val Trp Val Phe Gly Gly Gly Thr Thr Pro Met Leu Thr Trp  
 275 280 285  
 Leu Gln Ile Arg Val Gly Val Asp Leu Asp Glu Asn Leu Lys Glu Asp  
 290 295 300  
 Pro Ser Ser Gln His  
 305

<210> 445

<211> 94

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (22)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 445

Ser	Met	Glu	Val	Gly	Val	Cys	Val	Glu	Ala	Tyr	Arg	Gln	Glu	Ala	Glu	1	5	10	15
Thr	His	Arg	Arg	His	Xaa	Asn	Ser	Ala	Phe	Met	Thr	Phe	Val	Val	Leu	20	25	30	
Asp	Ala	Asp	Asp	Gln	Pro	Gln	Leu	Leu	Pro	Trp	Ile	Arg	Pro	Gln	Pro	35	40	45	
Gly	Asp	Gly	Glu	Arg	Arg	Tyr	Arg	Glu	Ala	Ser	Ala	Arg	Lys	Lys	Ile	50	55	60	
Arg	Leu	Asp	Arg	Lys	Tyr	Ile	Val	Ser	Cys	Lys	Gln	Thr	Glu	Val	Pro	65	70	75	80
Leu	Ser	Val	Pro	Trp	Asp	Pro	Ser	Asn	Gln	Val	Tyr	Leu	Ser	85	90				